Appendix C-1

Air Quality Technical Report

West Campus Upper Plateau

AIR QUALITY IMPACT ANALYSIS

MARCH JOINT POWER AUTHORITY (MARCH JPA)

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TABLE OF CONTENTS

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APPENDICES

LIST OF EXHIBITS

LIST OF TABLES

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LIST OF ABBREVIATED TERMS

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
µg/m^3	Microgram per Cubic Meter
1992 CO Plan	*1992 Federal Attainment Plan for Carbon Monoxide*
1993 CEQA Handbook	SCAQMD's *CEQA Air Quality Handbook (1993)*
2003 AQMP	SCAQMD's *2003 Air Quality Management Plan*
2016 AQMP	SCAQMD's *Final 2019 Air Quality Management Plan*
2016-2040 RTP/SCS	*2016-2040 Regional Transportation Plan/Sustainable Communities Strategy*
AB 2595	California Clean Air Act
AQIA	Air Quality Impact Analysis
AQMP	Air Quality Management Plan
BAAQMD	Bay Area Air Quality Management District
BC	Black Carbon
C_2Cl_4	Perchloroethylene
C_4H_6	1,3-butadiene
C_6H_6	Benzene
C_2H_3Cl	Vinyl Chloride
C_2H_4O	Acetaldehyde
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CEQA Guidelines	*2019 CEQA Statute and Guidelines*
CH_2O	Formaldehyde
CO	Carbon Monoxide
COH	Coefficient of Haze
COHb	Carboxyhemoglobin

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

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

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

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

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

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS (1 OF 2)

Analysis	Report Section	Significance Findings		
		Unmitigated	Mitigation Measure	Mitigated[1]
Regional Construction Emissions	5.3	*Potentially Significant*	*MM AQ-1*	*Less than significant*
Localized Construction Emissions	5.5	*Less Than Significant*	*n/a*	*n/a*
Regional Operational Emissions	5.4	*Potentially Significant*	*MM AQ-2 through MM AQ-15*	*Significant and Unavoidable*
Localized Operational Emissions	5.6	*Less Than Significant*	*n/a*	*n/a*
CO "Hot Spot" Analysis	5.7	*Less Than Significant*	*n/a*	*n/a*
Air Quality Management Plan	5.8	*Potentially Significant*	*MM AQ-1 through MM AQ-15*	*Significant and Unavoidable*
Regional Transportation Plan/ Sustainable Communities Strategy	5.9	*Less Than Significant*	*n/a*	*n/a*
Sensitive Receptors	5.10	*Less Than Significant*	*n/a*	*n/a*
Odors	5.11	*Less Than Significant*	*n/a*	*n/a*
Cumulative Impacts	5.12	*Potentially Significant*	*MM AQ-1 through MM AQ-15*	*Significant and Unavoidable*

ES.2 STANDARD REGULATORY REQUIREMENTS

There are numerous requirements that development projects must comply with by law, and that were put in place by federal, State, and local regulatory agencies for the improvement of air quality. Required by South Coast Air Quality Management District (SCAQMD) Rules, the two most

pertinent regulatory requirements that apply during construction activity for the proposed Project include but are not limited to Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). As such, credit for Rule 403 and Rule 1113 have been taken in the analysis.

SCAQMD RULE 403

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

SCAQMD RULE 1113

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

ES.3 PROJECT MITIGATION MEASURES

ES.3.1 CONSTRUCTION-SOURCE MMS

The Project construction-source emissions have the potential to exceed SCAQMD regional thresholds for VOC emissions prior to mitigation. Mitigation Measure (MM) AQ-1 is designed to reduce Project construction-source VOC emissions. After application of MM AQ-1, Project construction-source emissions will not exceed SCAQMD regional thresholds for VOC emissions. Thus, the Project would result in a less than significant impact associated with construction activities.

MM AQ-1

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

ES.3.2 OPERATIONAL-SOURCE MMS

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

The following measures (MM AQ-2 through MM AQ-15) are designed to reduce Project operational-source VOCs, NO_X, CO, and PM_{10}emissions. There is no way to meaningfully quantify

these reductions in California Emissions Estimator Model (CalEEMod), and therefore no numeric emissions credit has been taken in the analysis. As such, even with application of MM AQ-2 through MM AQ-15, Project operational-source emissions impacts would be significant and unavoidable.

MM AQ-2

Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable CARB anti-idling regulations. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than five (5) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) telephone numbers of the building facilities manager and the CARB to report violations. Prior to the issuance of an occupancy permit, the March JPA shall conduct a site inspection to ensure that the signs are in place.

MM AQ-3

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

MM AQ-4

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

MM AQ-5

Prior to the issuing of each building permit, the Project proponent and its contractors shall provide plans and specifications to the March JPA that demonstrate that electrical service is provided to each of the areas in the vicinity of the building that are to be landscaped in order that electrical equipment may be used for landscape maintenance.

MM AQ-6

Once constructed, the project proponent shall ensure that all building tenants shall utilize electric equipment for landscape maintenance to the extent feasible, through requirements in the lease agreements.

MM AQ-7

Once constructed, through requirements in the lease agreements, the project proponent shall ensure that all building tenants shall utilize only electric or natural gas service yard trucks (hostlers), pallet jacks and forklifts, and other onsite equipment, through requirements in the lease agreements. Electric-powered service yard trucks (hostlers), pallet jacks and forklifts, and other onsite equipment shall also be required instead of diesel-powered equipment, if technically

feasible. Yard trucks may be diesel fueled in lieu of electrically or natural gas fueled provided such yard trucks are at least compliant with California Air Resources Board (CARB) 2010 standards for on-road vehicles or CARB Tier 4 compliant for off-road vehicles.

MM AQ-8

Upon occupancy, through requirements in the lease agreements, the facility operator shall require tenants that do not already operate 2010 and newer trucks to apply in good faith for funding to replace/retrofit their trucks, such as Carl Moyer, VIP, Prop 1B, SmartWay Finance, or other similar funds. If awarded, the tenant shall be required to accept and use the funding. Tenants shall be encouraged to consider the use of alternative fueled trucks as well as new or retrofitted diesel trucks. Tenants shall also be encouraged to become SmartWay Partners, if eligible. This measure shall not apply to trucks that are not owned or operated by the facility operator or facility tenants since it would be infeasible to prohibit access to the site by any truck that is otherwise legal to operate on California roads and highways.

MM AQ-9

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

- Appoint a Transportation Demand Management (TDM) coordinator who would promote the TDM program, activities and features to all employees.
- Create and maintain a “commuter club” to manage subsidies or incentives for employees who carpool, vanpool, bicycle, walk, or take transit to work.
- Inform employees of public transit and commuting services available to them (e.g., social media, signage).
- Provide on-site transit pass sales and discounted transit passes.
- Guarantee a ride home.
- Offer shuttle service to and from public transit and commercial areas/food establishments, if warranted.
- Coordinate with the Riverside Transit Agency and employers in the surrounding area to maximize the benefits of the TDM program.

MM AQ-10

Prior to the issuance of a building permit, the project proponent shall provide evidence to the March JPA that loading docks are designed to be compatible with SmartWay trucks.

MM AQ-11

Upon occupancy and annually thereafter, the facility operator shall provide information to all tenants, with instructions that the information shall be provided to employees and truck drivers as appropriate, regarding:

- Building energy efficiency, solid waste reduction, recycling, and water conservation.
- Vehicle GHG emissions, electric vehicle charging availability, and alternate transportation opportunities for commuting.
- Participation in the Voluntary Interindustry Commerce Solutions (VICS) "Empty Miles" program to improve goods trucking efficiencies.
- Health effects of diesel particulates, State regulations limiting truck idling time, and the benefits of minimized idling.
- The importance of minimizing traffic, noise, and air pollutant impacts to any residences in the Project vicinity.

MM AQ-12

Prior to issuance of a building permit, the project proponent shall provide the March JPA with an onsite signage program that clearly identifies the required onsite circulation system. This shall be accomplished through posted signs and painting on driveways and internal roadways.

MM AQ-13

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

MM AQ-14

Prior to issuance of an occupancy permit, the project proponent shall install a sign on the property with telephone, email, and regular mail contact information for a designated representative of the tenant who would receive complaints about excessive noise, dust, fumes, or odors. The sign shall also identify contact data for the March JPA for perceived Code violations. The tenant's representative shall keep records of any complaints received and actions taken to communicate with the complainant and resolve the complaint. The tenant's representative shall endeavor to resolve complaints within 24 hours.

MM AQ-15

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

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1 INTRODUCTION

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

1.1 SITE LOCATION

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

1.2 PROJECT DESCRIPTION

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

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

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

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

EXHIBIT 1-B: LOCATION MAP

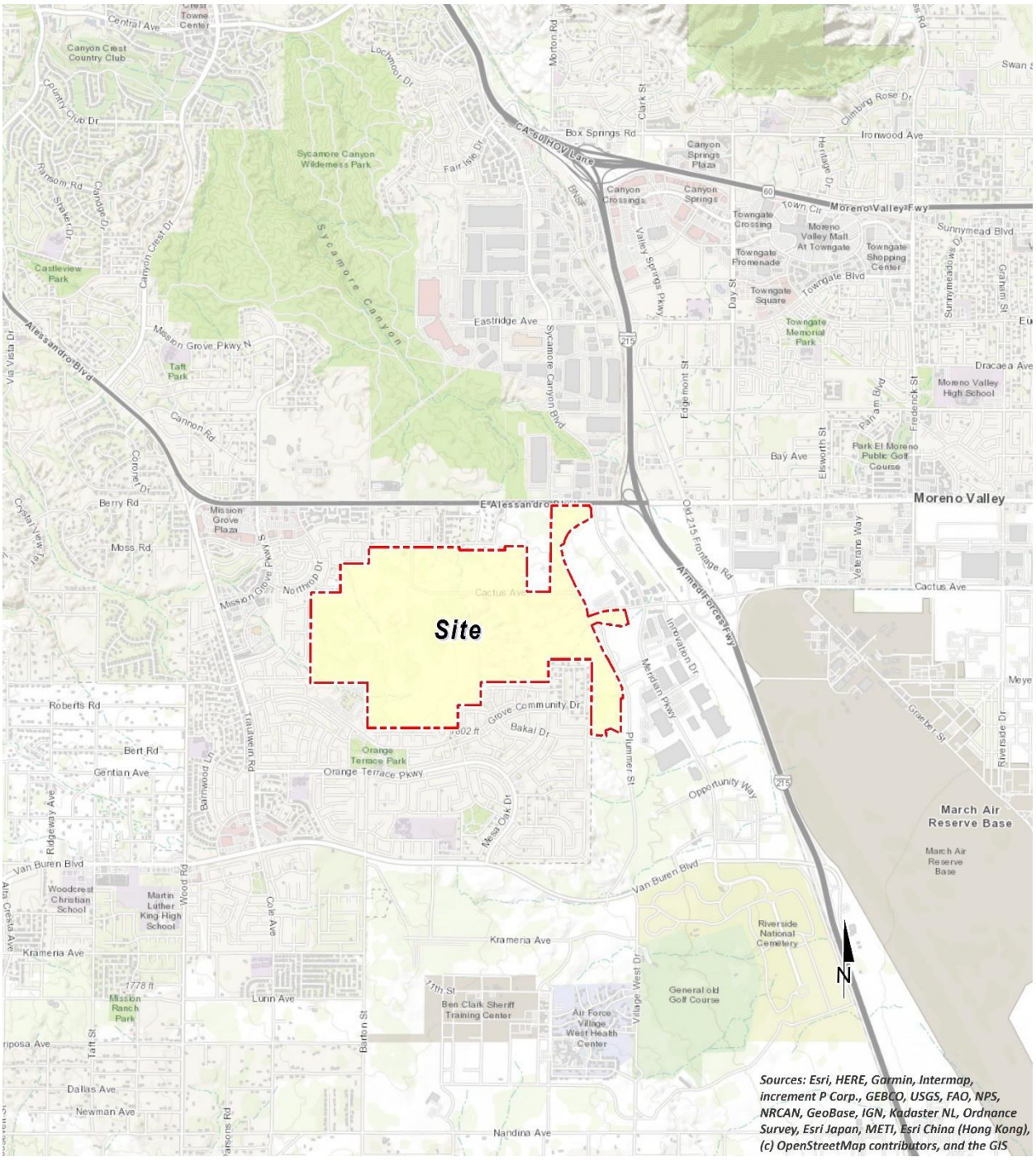
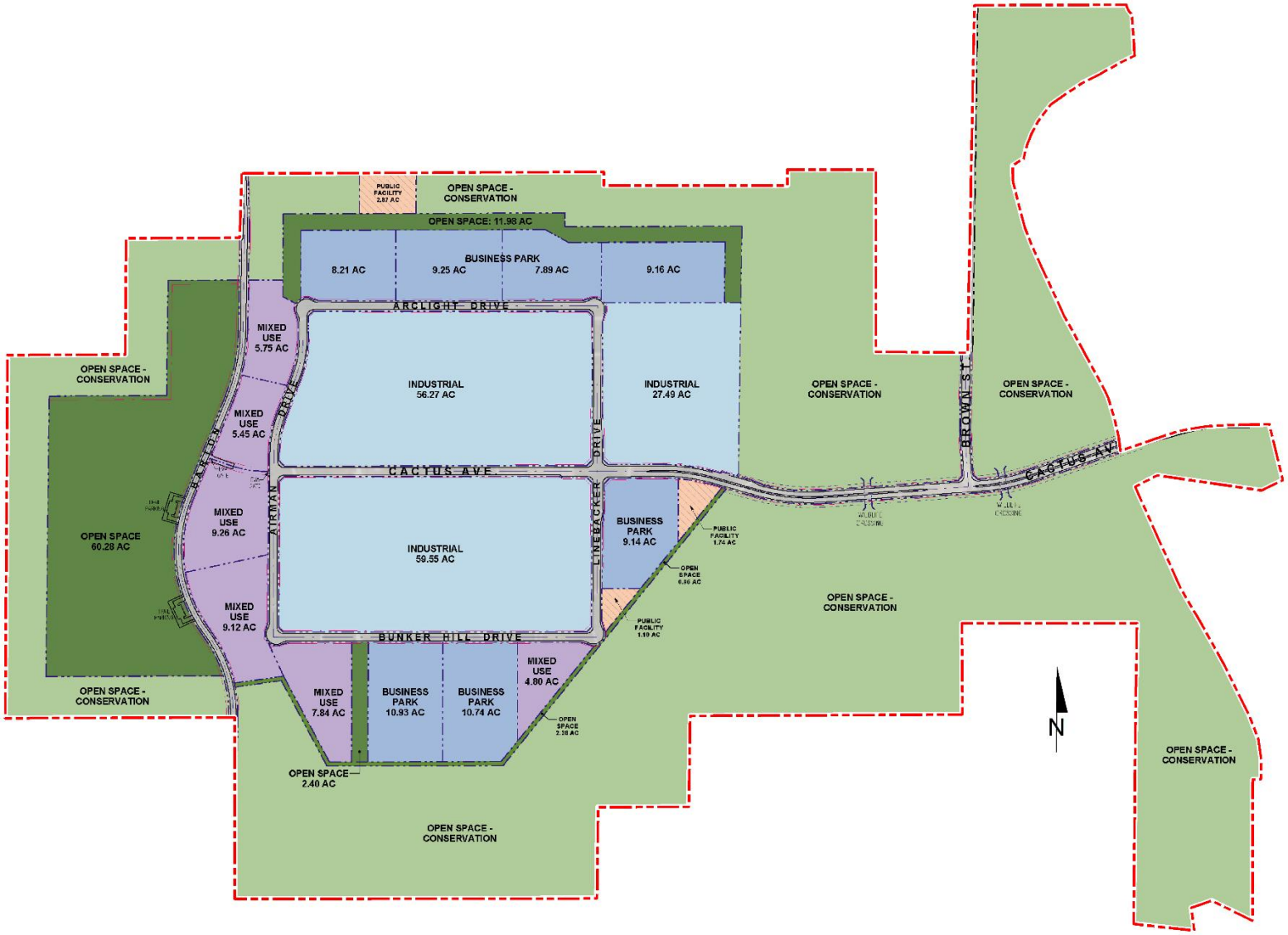


EXHIBIT 1-B: SITE PLAN



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2 AIR QUALITY SETTING

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

2.1 SOUTH COAST AIR BASIN

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

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

2.2 REGIONAL CLIMATE

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

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

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

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

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

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

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

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

2.3 WIND PATTERNS AND PROJECT LOCATION

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

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

2.4 CRITERIA POLLUTANTS

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

TABLE 2-1: CRITERIA POLLUTANTS

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

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

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

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

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

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

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

2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (8).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May ,4 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (9).

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

Ambient Air Quality Standards						
Pollutant	**Averaging Time**	**California Standards [1]**		**National Standards [2]**		
		Concentration [3]	**Method [4]**	**Primary [3,5]**	**Secondary [3,6]**	**Method [7]**
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m^3)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m^3)		0.070 ppm (137 µg/m^3)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m^3	Gravimetric or Beta Attenuation	150 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m^3		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m^3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m^3	Gravimetric or Beta Attenuation	12.0 µg/m^3	15 µg/m^3	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m^3)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m^3)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m^3)		9 ppm (10 mg/m^3)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m^3)	Gas Phase Chemiluminescence	100 ppb (188 µg/m^3)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m^3)		0.053 ppm (100 µg/m^3)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m^3)	Ultraviolet Fluorescence	75 ppb (196 µg/m^3)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m^3)	
	24 Hour	0.04 ppm (105 µg/m^3)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m^3	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m^3 (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m^3		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m^3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m^3)	Gas Chromatography			

See footnotes on next page …

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O_3, particulate matter (PM_{10} and $PM_{2.5}$), NO_2, and SO_2 which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (10). On January 5, 2021, CARB posted the 2020 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (11). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

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

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

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

2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents with information on the air quality conditions. The Project Site is located within the SRA 23 (12). Within SRA 23, the SCAQMD Metropolitan Riverside County 1 monitoring station, located approximately 8.4 miles northwest of the Project site, is the nearest long-term air quality monitoring station for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$.

The most recent three (3) years of data available are shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project Site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2018 through 2020 was obtained from the SCAQMD Air Quality Data Tables (13). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

[1] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2018-2020

Pollutant	Standard	Year		
		2018	2019	2020
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.123	0.123	0.143
Maximum Federal 8-Hour Concentration (ppm)		0.101	0.096	0.115
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	22	24	46
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	53	59	81
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	2.2	1.5	1.9
Maximum Federal 8-Hour Concentration	> 20 ppm	2.0	1.2	1.4
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.055	0.056	0.066
Annual Average		0.014	0.014	0.014
PM_{10}				
Maximum Federal 24-Hour Concentration (µg/m^3)	> 150 µg/m^3	126	99	104
Annual Federal Arithmetic Mean (µg/m^3)		44.0	34.4	30.0
Number of Days Exceeding Federal 24-Hour Standard	> 150 µg/m^3	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 µg/m^3	132	21	110
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration (µg/m^3)	> 35 µg/m^3	50.70	46.70	41.00
Annual Federal Arithmetic Mean (µg/m^3)	> 12 µg/m^3	12.41	11.13	12.63
Number of Days Exceeding Federal 24-Hour Standard	> 35 µg/m^3	2	4	4

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

2.8 REGIONAL AIR QUALITY IMPROVEMENT

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

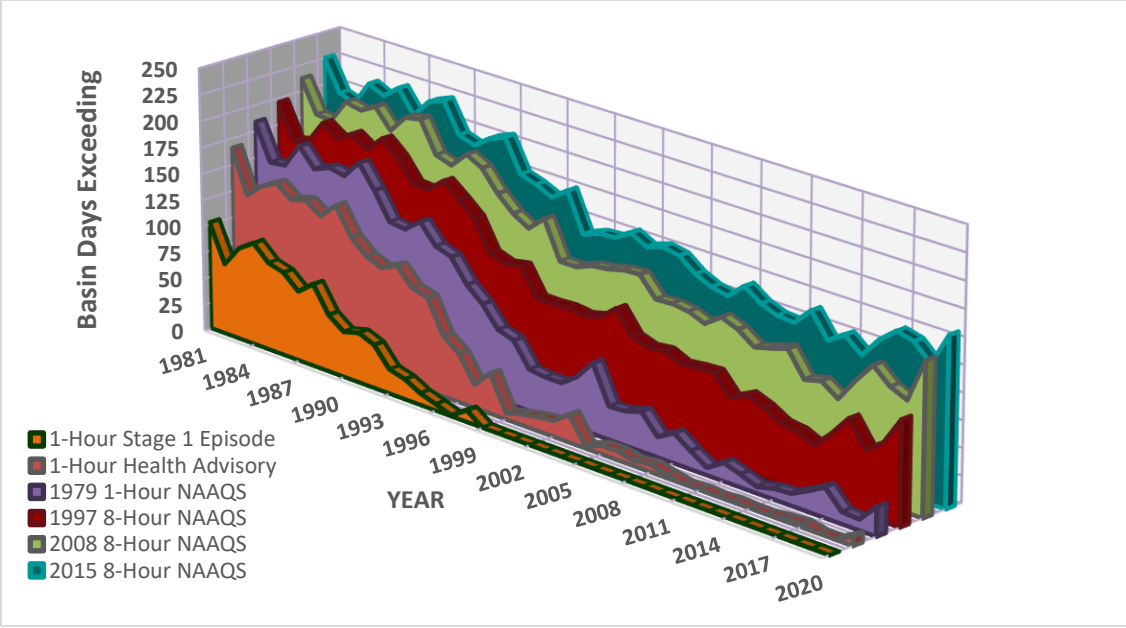
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the

development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (14).

Emissions of O_3, NO_X, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (15). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase, NO_X and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O_3 contour maps show that the number of days exceeding the 8-hour NAAQS has generally decreased between 1980 and 2020. For 2020, there was an overall decrease in exceedance days compared with the 1980 period. However, as shown on Table 2-5, O_3 levels have increased in the past three years due to higher temperatures and stagnant weather conditions. Notwithstanding, O_3 levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70's (16).

TABLE 2-5: SCAB O_3 TREND

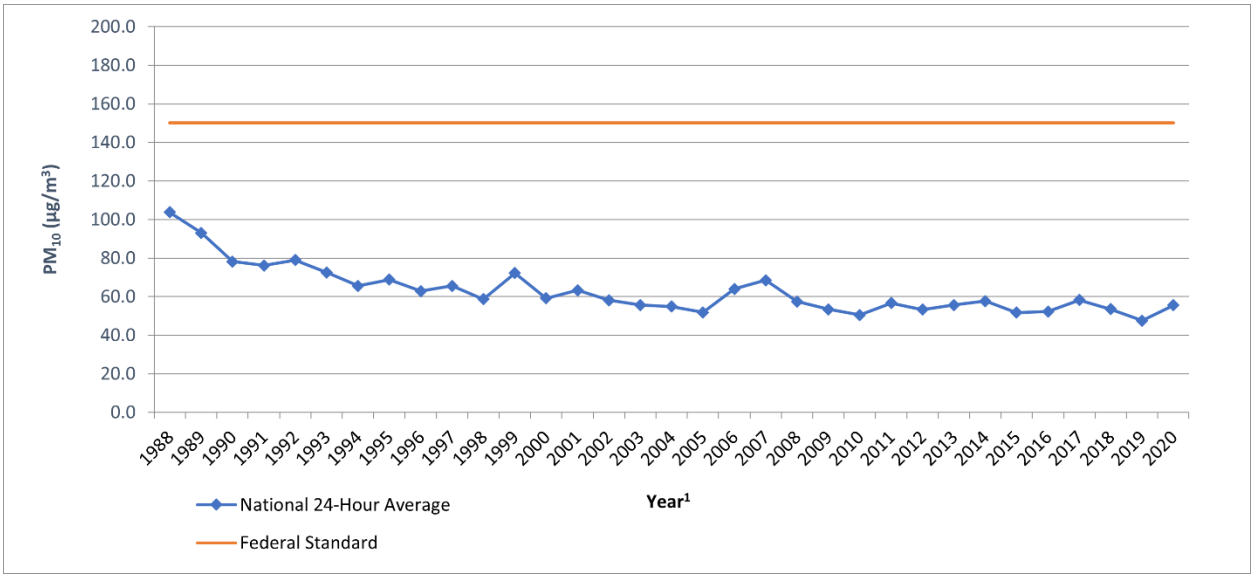


Source: 2020 SCAQMD, Historical O_3 Air Quality Trends (1976-2020)

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

As with other pollutants, the most recent PM_{10} statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM_{10} decreased by approximately 46%, from 103.7 microgram per cubic meter (µg/m³) in 1988 to 55.5 µg/m³ in 2020 (17). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations would exceed the threshold. The 24-hour state annual average for emissions for PM_{10}, have decreased by approximately 64%, from 93.9 µg/m³ in 1989 to 33.9 µg/m³ in 2020 (17). Although data in the late 1990's show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM_{10} standards has also shown an overall drop.

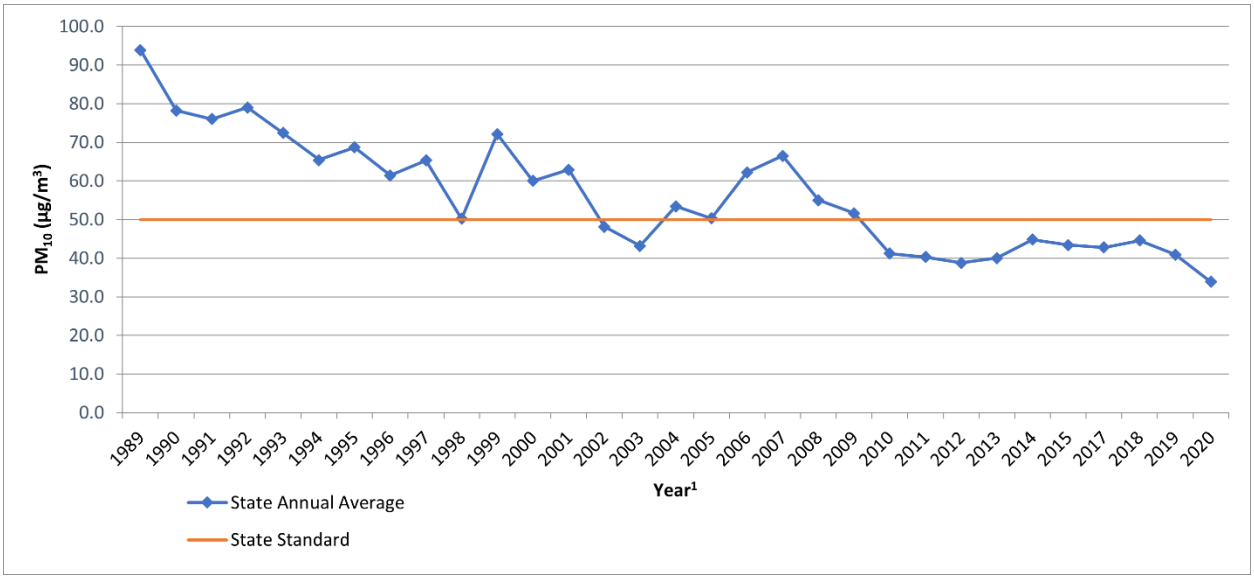
TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2020)

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

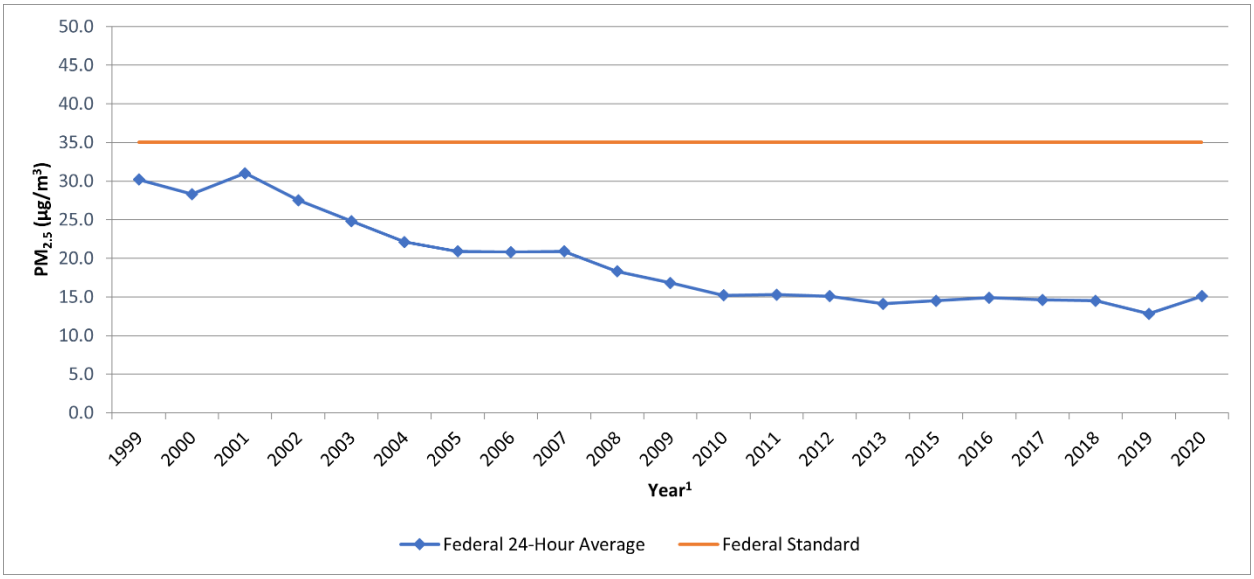
TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: PM_{10} 24-Hour Averages (1988-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

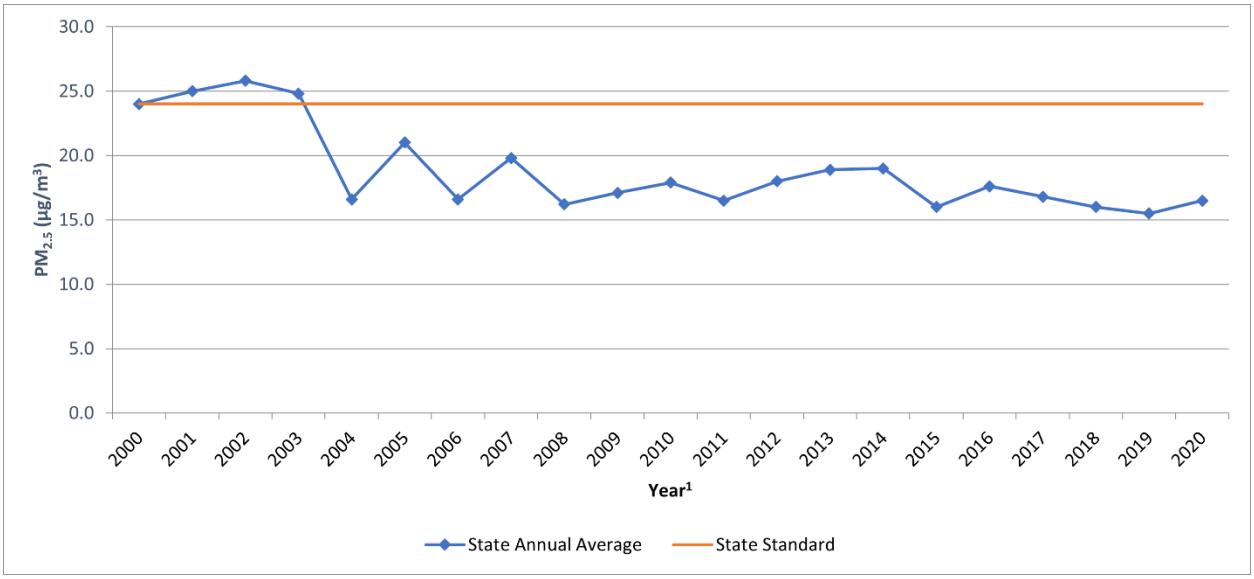
Tables 2-8 and 2-9 shows the most recent 24-hour average $PM_{2.5}$ concentrations in the SCAB from 1999 through 2020. Overall, the national and state annual average concentrations have decreased by almost 50% and 31% respectively (17). It should be noted that the SCAB is currently designated as nonattainment for the state and federal $PM_{2.5}$ standards.

TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1]



Source: 2020 CARB, iADAM: Top Four Summary: $PM_{2.5}$ 24-Hour Averages (1999-2020)

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

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

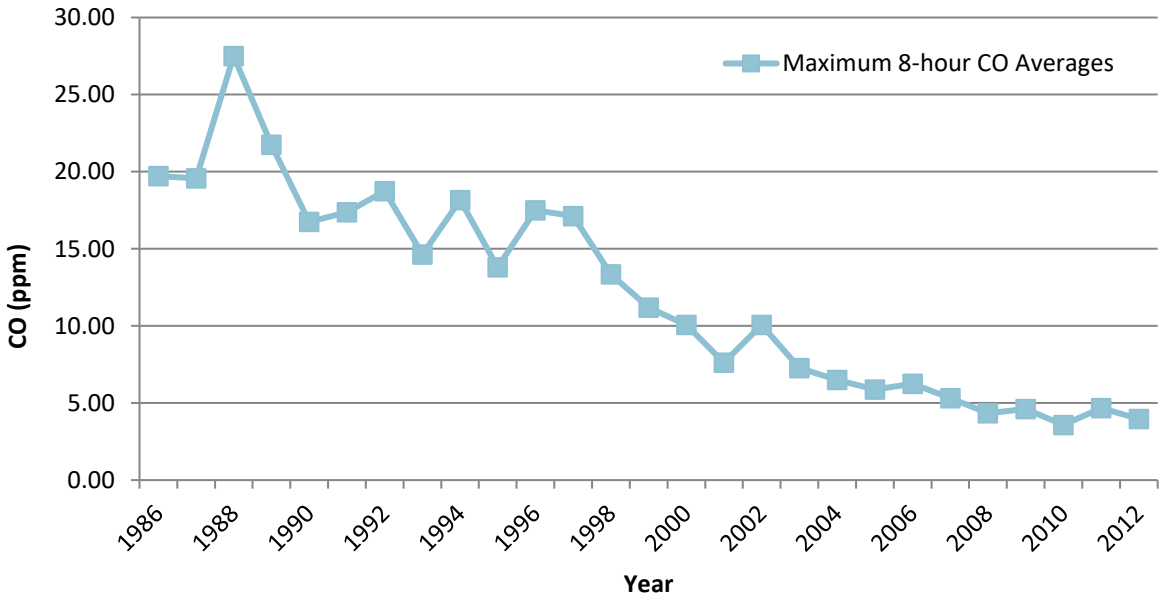
The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of $PM_{2.5}$-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the $PM_{2.5}$ increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour $PM_{2.5}$ standard, SCAQMD submitted a request and the EPA approved, in January 2016, a "bump up" to the nonattainment classification from "moderate" to "serious," with a new attainment deadline as soon as practicable, but not beyond December 31, 2019. As of March 14, 2019, the EPA approved portions of a SIP revision submitted by California to address CAA requirements for the 2006 24-hour $PM_{2.5}$ NAAQS in the Los Angeles-SCAB Serious $PM_{2.5}$ nonattainment area. The EPA also approved 2017 and 2019 motor vehicle emissions budgets for transportation conformity purposes and inter-pollutant trading ratios for use in transportation conformity analyses (18).

In March 2017, the SCAQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (19). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016-2040 RTP/SCS) and updated emission inventory methodologies for various source categories (20).

The 2022 AQMP is currently being developed by SCAQMD to address the EPA's strengthened ozone standard. Development of the 2022 AQMP is in its early stages and no formal timeline for completion and adoption is currently known.

The most recent CO concentrations in the SCAB are shown in Table 2-10 (17). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80% in the peak 8-hour concentration from 1986 to 2012. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

TABLE 2-10: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND[1]



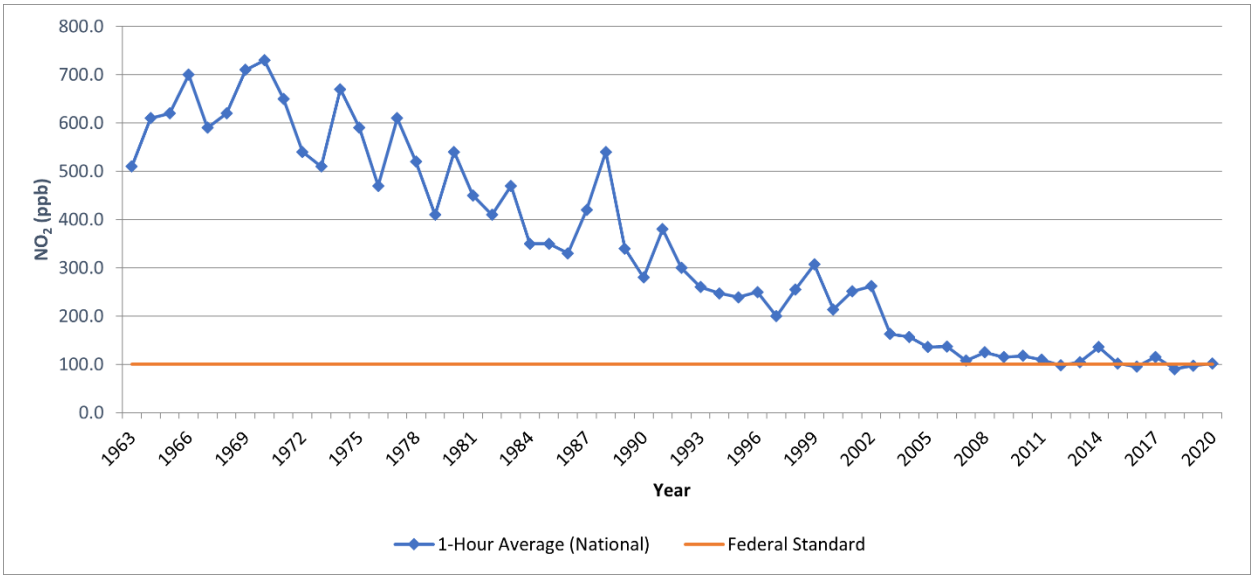
Source: 2020 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)
[1] The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's *CEQA Air Quality Handbook (1993)* (*1993 CEQA Handbook*) (21). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

The most recent NO_2 data for the SCAB is shown in Tables 2-11 and 2-12 (17). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2020 is approximately 80% lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard in 1994, bringing the entire state into attainment. A new state annual average

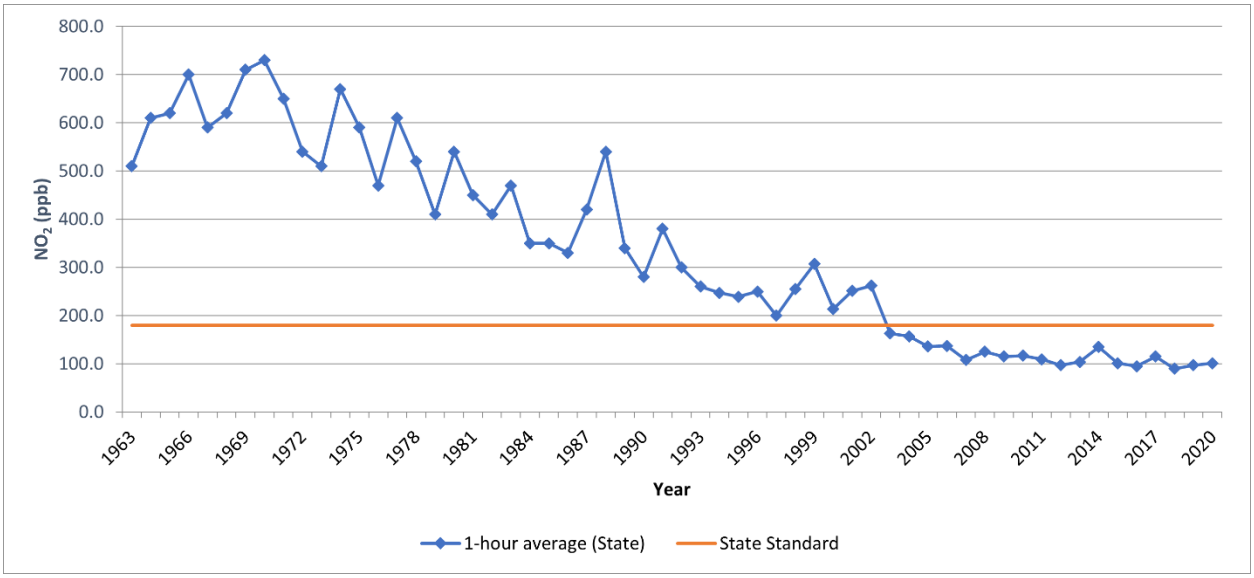
standard of 0.030 ppm was adopted by CARB in February 2007 (22). The new standard is just barely exceeded in the SCAQMD. NO_2 is formed from NO_X emissions, which also contribute to O_3. As a result, the majority of the future emission control measures would be implemented as part of the overall O_3 control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California's NO_X emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON FEDERAL STANDARD)



Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON STATE STANDARD)



Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

2.9.1 TOXIC AIR CONTAMINANTS (TAC) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary sources, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (23) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene (C_6H_6), and 1,3-butadiene (C_4H_6); those that are derived from stationary sources: perchloroethylene (C_2Cl_4) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH_2O) and acetaldehyde (C_2H_4O)[2]. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

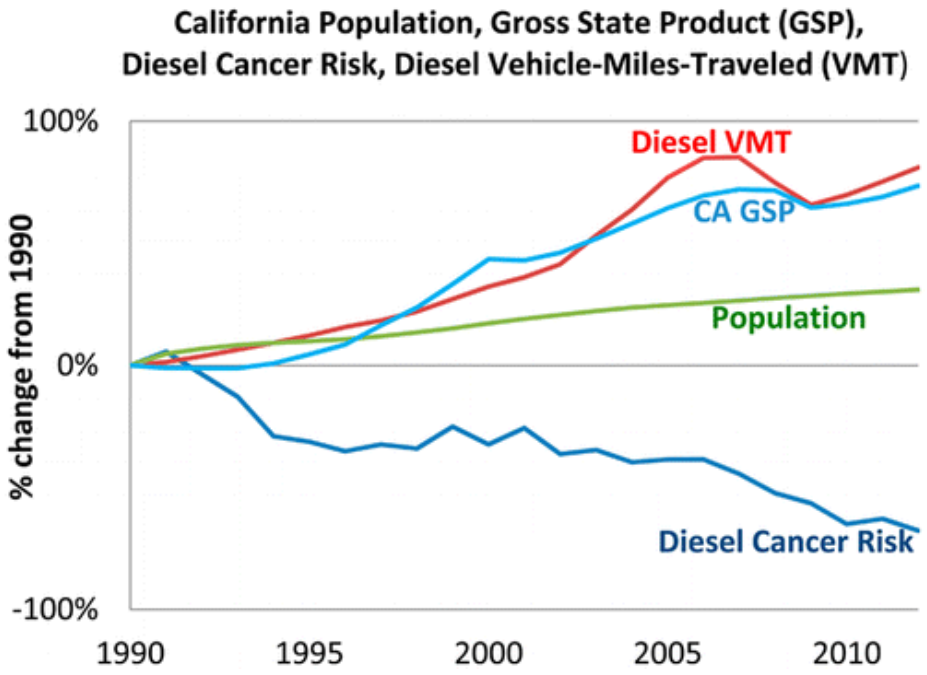
MOBILE SOURCE TACS

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD-II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase "Check Engine" or "Service Engine Soon." The system would also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. CARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 pounds (lbs). CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (23).

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

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

EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND



Source: 2020 CARB

DIESEL REGULATIONS

CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, CARB Drayage Truck Regulation (24), CARB statewide On-road Truck and Bus Regulation (25), and the Ports of Los Angeles and Long Beach Clean Truck Program (CTP) require accelerated implementation of "clean trucks" into the statewide truck fleet (26). In other words, older more polluting trucks would be replaced with newer, cleaner trucks as a function of these regulatory requirements.

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

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

CANCER RISK TRENDS

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

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements were conducted at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V also included measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (27). The final report for the MATES V study was published August 2021. In addition to new measurements and updated modeling results, several key updates were implemented in MATES V. First, MATES V estimates cancer risks by taking into account multiple exposure pathways, which includes inhalation and non-inhalation pathways. This approach is consistent with how cancer risks are estimated in South Coast AQMD's programs such as permitting, Air Toxics Hot Spots (AB2588), and CEQA. Previous MATES studies quantified the cancer risks based on the inhalation pathway only. Second, along with cancer risk estimates, MATES V includes information on the chronic non-cancer risks from inhalation and non-inhalation pathways for the first time. Cancer risks and chronic non-cancer risks from MATES II through IV measurements have been re-examined using current Office of Environmental Health Hazard Assessment (OEHHA) and CalEPA risk assessment methodologies and modern statistical methods to examine the trends over time (28).

MATES-V calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-V has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. The Project is located within a quadrant of the geographic grid of the MATES-V model which predicted a cancer risk of 359 in one million for the area containing the Project site. DPM is included in this cancer risk along with all other TAC sources. As in previous MATES iterations, diesel PM is the largest contributor to overall air toxics cancer risk. However, the average levels of diesel PM in MATES V are 53% lower at the 10 monitoring sites compared to MATES IV. Cumulative Project generated TACs are limited to DPM.

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3 REGULATORY BACKGROUND

3.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_X, SO_2, PM_{10}, and Pb (29). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (30). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (31) (32). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

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

3.2 CALIFORNIA REGULATIONS

CARB

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

because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (33) (29).

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

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

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NOX, CO and PM10. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS

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

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

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that will be effective on January 1, 2023. The CEC anticipates that the 2022 energy code will provide $1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (34). The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (35):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty EV supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor- mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).

- Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
- Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

AIR QUALITY MANAGEMENT PLANNING (AQMP)

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards (20). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 5.8.

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4 SIGNIFICANCE THRESHOLDS

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *Initial Study Checklist in Appendix G of the State CEQA Guidelines* (14 CCR §§ 15000, et seq.) and the March JPA 2019 CEQA Guidelines. Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

4.1 REGIONAL SIGNIFICANCE THRESHOLDS

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 4-1 (38). The SCAQMD's *CEQA Air Quality Significance Thresholds* (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 4-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

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

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

4.2 LOCALIZED SIGNIFICANCE THRESHOLDS

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (*LST Methodology*) (39). The SCAQMD has established that impacts to air

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

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

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

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (40).

4.2.1 APPLICABILITY OF LSTS FOR THE PROJECT

For this Project, the appropriate SRA for the LST analysis is Metropolitan Riverside County 1 (SRA 23). LSTs apply to CO, NO_X, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size, however the look-up tables can be applied as a screening criterion for larger projects (see additional discussion in Section 4.2.2).

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

Identify the maximum daily on-site emissions that will occur during construction activity:

- The maximum daily on-site emissions could be based on information provided by the Project Applicant; or
- The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds and CalEEMod User's Guide Appendix A: Calculation Details for CalEEMod can be used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod (41) (42).

If the total acreage disturbed is less than or equal to 5 acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a Project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in lbs/day that can be compared to CalEEMod outputs.

Since total acreage disturbed for the Project is likely greater than 5 acres per day throughout the construction process, then the SCAQMD recommends dispersion modeling to be conducted to determine the actual pollutant concentrations for applicable LSTs in the air. In other words, the maximum daily on-site emissions as calculated in CalEEMod are modeled via air dispersion

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

modeling to calculate the actual concentration in the air (e.g., parts per million or micrograms per cubic meter) in order to determine if any applicable thresholds are exceeded.

4.2.1.1 MAXIMUM DAILY DISTURBED-ACREAGE

As a conservative measure, it is assumed that a maximum of 20 acres per day can be actively disturbed. In CalEEMod, the Total Acres Graded (TAG) field represents the cumulative distance traversed on the property by the grading equipment. In order to properly grade a piece of land, multiple passes with grading equipment may be required. So even though the lot size is a fixed number of acres, the TAG could be an order of magnitude higher than the footprint of the lot (42). TAG is a function of the maximum acreage disturbed per day times the number of days of the subphase of construction. As such, the "Total Acres Graded" field in CalEEMod has been revised to 3,980 acres for Mass Grading (20 acres disturbed per day x 199 working days), 3,980 acres for Blasting & Rock Handling (20 acres disturbed per day x 199 working days), and 1,340 acres for Remedial Grading phases (20 acres disturbed per day x 67 working days)[5].

4.2.1.2 DISPERSION MODELING

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

SOURCES

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

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

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

Exhibit 2-A from the *West Campus Upper Plateau Mobile Source Health Risk Assessment* (43)details the placement of sources on the Project site utilized in modeling construction emissions.

METEOROLOGICAL DATA AND MODEL OPTIONS

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

[5] CalEEMod does not provide a "Total Acres Graded" field for Building Construction, Paving, or Architectural Coating activities.

4.2.1.3 SENSITIVE RECEPTORS

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

RESIDENTIAL RECEPTORS

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

NON-RESIDENTIAL RECEPTORS

As per the LST Methodology, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for 8 hours or less. The LST Methodology explicitly states that "*LSTs based on shorter averaging periods, such as the NO_2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours* (39)." For purposes of analysis, if an industrial/commercial use is located at a closer distance to the Project site than the nearest residential use, the nearest industrial/commercial use will be utilized to determine construction and operational LST air impacts for emissions of NO_X and CO an individual could be present at these sites for periods of 1 to 8 hours.

PROJECT-RELATED SENSITIVE RECEPTORS

Sensitive receptors in the Project study area are described below:

- R1: Location R1 represents the existing residence at 20081 Camino Del Sol, approximately 331 feet and 1,033 feet north of Areas 3 and 4, respectively.
- R2: Location R2 represents the existing residence at 20351 Camino Del Sol, approximately 293 feet and 983 feet north of Areas 3 and 4, respectively. R2 is placed in the private outdoor living areas (backyard) facing the Project site.
- R3: Location R3 represents the existing residence at 20635 Camino Del Sol, approximately 299 feet and 862 feet north of Areas 3 and 5, respectively. R3 is placed in the private outdoor living areas (backyard) facing the Project site.

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

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

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

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

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

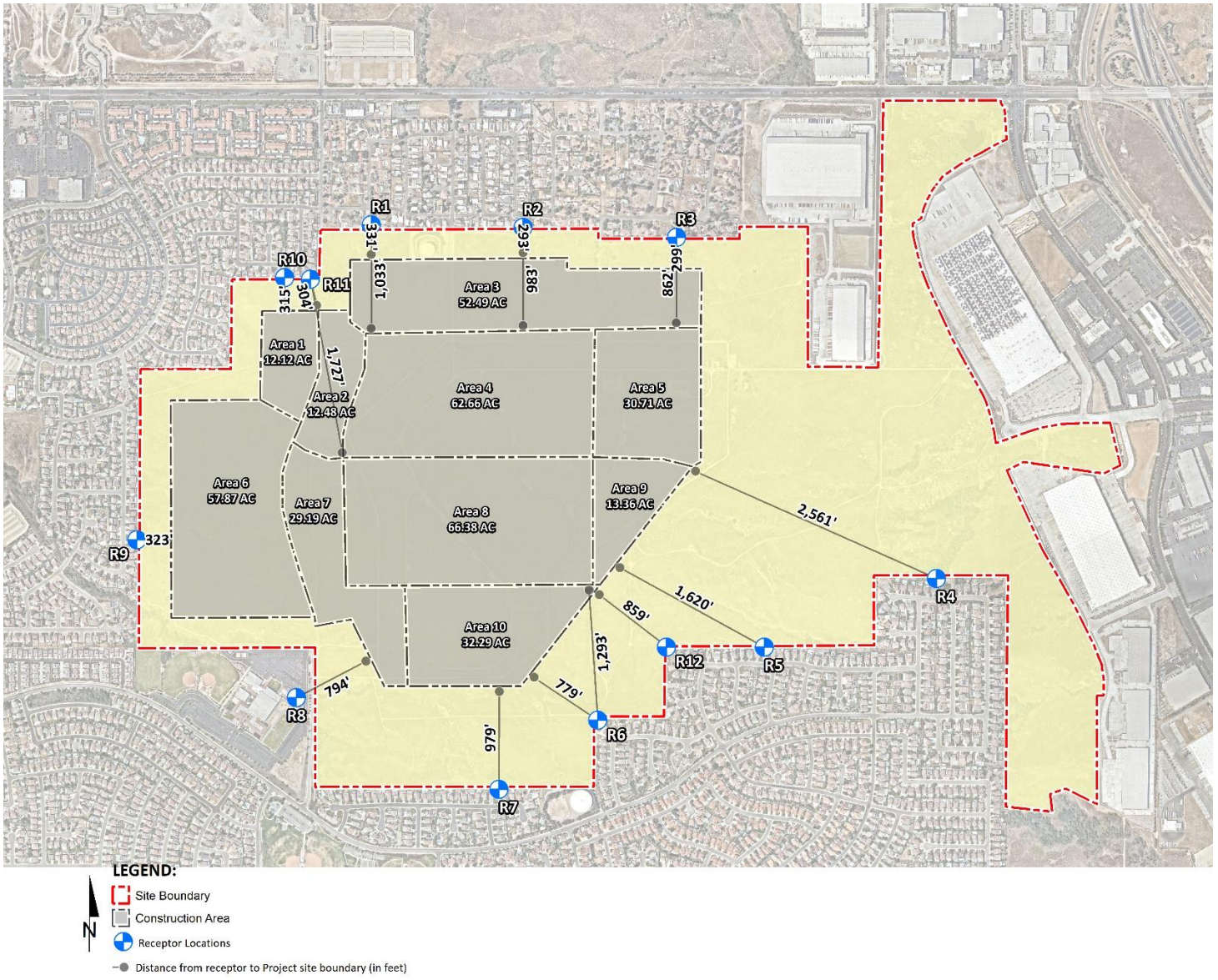
R9: Location R9 represents the existing residence at 8044 La Crosse Way, approximately 323 feet west of the Project site. R9 is placed in the private outdoor living areas (backyard) facing the Project site.

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

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

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

EXHIBIT 4-A: SENSITIVE RECEPTOR LOCATIONS



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5 AIR QUALITY IMPACTS

5.1 INTRODUCTION

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

5.2 METHODOLOGY

5.2.1 CALEEMOD

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

In May 2022, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from MMs (44). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 5.1, 5.3, and 5.4.

5.3 REGIONAL CONSTRUCTION EMISSIONS

5.3.1 CONSTRUCTION ACTIVITIES

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

PHASE 1

- Mass Grading
- Blasting & Rock Handling

PHASE 2

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

GRADING ACTIVITIES

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

BLASTING ACTIVITIES

Blasting is not anticipated to occur frequently in Project construction, occurring at most once per day and twice per week. Nonetheless, the emissions effects of blasting are analyzed in this AQIA. The estimated emissions of NO_X, CO, and SO_X from explosives used for blasting were determined using emission factors in Section 13.3 (Explosives Detonation) of AP-42 (EPA 1980), and PM_{10} and $PM_{2.5}$ emissions were determined using Section 11.9 of AP-42 (45). According to AP-42, "Unburned hydrocarbons also result from explosions, but in most instances, methane is the only species that has been reported" (EPA 1980); methane is not a VOC, and a methane emission factor has not been determined for ammonium nitrate/fuel oil (ANFO). Additional details on the emissions calculation associated with blasting are provided in Appendix 5.2. Based on information provided by the Project Applicant, the Project will require movement of approximately 1,501,055 cubic yards of rock, though no import or export of material is expected.

CONSTRUCTION WORKER VEHICLE TRIPS

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

5.3.2 CONSTRUCTION DURATION

Construction is expected to commence in June 2023 and will end in October 2027. The construction schedule utilized in the analysis, shown in Table 5-1, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[6] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1).

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

TABLE 5-1: CONSTRUCTION SCHEDULE

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

5.3.3 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. In accordance with the County of Riverside Good Neighbor Policy for Logistics and Warehouse/Distribution uses, it is assumed that the Project will utilize equipment meeting at least CARB Tier 4 emission standards. A detailed summary of construction equipment assumptions by phase is provided at Table 5-2.

TABLE 5-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

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

Phase	Construction Activity	Equipment	Amount	Hours Per Day	Horsepower	Load Factor
		Excavators	2	8	400	0.38
	Building Construction	Cranes	2	8	231	0.29
		Crawler Tractors	3	8	212	0.43
		Forklifts	6	8	89	0.20
		Generator Sets	2	8	84	0.74
		Welders	2	8	46	0.45
	Architectural Coating	Air Compressors	2	8	78	0.48
	Paving	Pavers	4	8	130	0.42
		Paving Equipment	4	8	132	0.36
		Rollers	4	8	80	0.38

5.3.4 ON-ROAD TRIPS

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

TABLE 5-3: CONSTRUCTION TRIP ASSUMPTIONS

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

5.3.5 CONSTRUCTION EMISSIONS SUMMARY

IMPACTS WITHOUT MITIGATION

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

IMPACTS WITH MITIGATION

As previously stated, the Project will implement MM AQ-1 which would reduce the severity of the VOC impacts. As shown in Table 5-5, after implementation of MM AQ-1, Project construction-source emissions of VOC would not exceed applicable SCAQMD thresholds. Detailed mitigated construction model outputs are presented in Appendix 5.1.

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

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer									
Phase 1	2023	Mass Grading	Construction Equipment	7.08	36.80	368.00	0.69	1.42	1.42
			Dust from Material Movement	0.00	0.00	0.00	0.00	19.7	8.36
			Worker, Vendor, Hauling Trips	0.55	4.62	8.78	0.03	0.33	0.13
		Phase 1 Mass Grading Emissions Totals		**7.63**	**41.42**	**376.78**	**0.72**	**21.45**	**9.91**
		Blasting & Rock Handling	Construction Equipment	1.85	9.61	96.10	0.18	0.37	0.37
			Dust from Material Movement	0.00	0.21	0.84	0.03	34.23	8.75
			Worker, Vendor, Hauling Trips	0.26	4.33	3.79	0.03	0.28	0.13
		Phase 1 Blasting & Rock Handling Totals		**2.11**	**14.15**	**100.73**	**0.24**	**34.88**	**9.25**
	2024	Mass Grading	Construction Equipment	n/a	n/a	n/a	n/a	n/a	n/a
			Dust from Material Movement	n/a	n/a	n/a	n/a	n/a	n/a
			Worker, Vendor, Hauling Trips	n/a	n/a	n/a	n/a	n/a	n/a
		Phase 1 Mass Grading Emissions Totals		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
		Blasting & Rock Handling	Construction Equipment	n/a	n/a	n/a	n/a	n/a	n/a
			Dust from Material Movement	n/a	n/a	n/a	n/a	n/a	n/a
			Worker, Vendor, Hauling Trips	n/a	n/a	n/a	n/a	n/a	n/a
		Phase 1 Blasting & Rock Handling Totals		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phase 2	2024	Remedial Grading	Construction Equipment	3.93	20.50	205.00	0.38	0.79	0.79
			Dust from Material Movement	0.00	0.00	0.00	0.00	10.70	4.62
			Worker, Vendor, Hauling Trips	0.27	1.57	4.39	0.01	0.13	0.04
		Phase 2 Remedial Grading Emissions Totals		**4.20**	**22.07**	**209.39**	**0.39**	**11.62**	**5.45**
		Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	10.07	21.58	162.85	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**10.70**	**26.52**	**199.65**	**0.13**	**2.46**	**0.52**
	2025	Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	8.74	20.12	150.68	0.08	2.34	0.40

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
		Phase 2 Building Construction Emissions Totals		**9.37**	**25.06**	**187.48**	**0.13**	**2.46**	**0.52**
	2026	Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	8.28	18.76	140.51	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**8.91**	**23.70**	**177.31**	**0.13**	**2.46**	**0.52**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.00	0.01	0.01
			Architectural Coatings	158.00	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	1.72	7.15	29.05	0.04	0.71	0.20
		Phase 2 Architectural Coating Emissions Totals		**159.79**	**7.49**	**33.94**	**0.04**	**0.72**	**0.21**
	2027	Paving	Construction Equipment	0.47	2.43	34.60	0.05	0.09	0.09
			Paving	12.20	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	0.13	0.84	2.22	0.01	0.07	0.03
		Phase 2 Paving Emissions Totals		**12.80**	**3.27**	**36.82**	**0.06**	**0.16**	**0.12**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.00	0.01	0.01
			Architectural Coatings	158.00	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	1.64	6.76	27.01	0.04	0.71	0.20
		Phase 2 Architectural Coating Emissions Totals		**159.71**	**7.10**	**31.90**	**0.04**	**0.72**	**0.21**
Winter									
Phase 1	2023	Mass Grading	Construction Equipment	7.08	36.80	368.00	0.69	1.42	1.42
			Dust from Material Movement	0.00	0.00	0.00	0.00	19.70	8.36
			Worker, Vendor, Hauling Trips	0.52	4.89	7.01	0.03	0.33	0.13
		Phase 1 Mass Grading Emissions Totals		**7.60**	**41.69**	**375.01**	**0.72**	**21.45**	**9.91**
		Blasting & Rock Handling	Construction Equipment	1.85	9.61	96.10	0.18	0.37	0.37
			Dust from Material Movement	0.00	0.21	0.84	0.03	34.23	8.75
			Worker, Vendor, Hauling Trips	0.24	4.55	3.23	0.03	0.28	0.13
		Phase 1 Blasting & Rock Handling Totals		**2.09**	**14.37**	**100.17**	**0.24**	**34.88**	**9.25**
	2024	Mass Grading	Construction Equipment	7.08	36.80	368.00	0.69	1.42	1.42
			Dust from Material Movement	0.00	0.00	0.00	0.00	19.70	8.36
			Worker, Vendor, Hauling Trips	0.50	4.67	6.49	0.03	0.33	0.13

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
		Phase 1 Mass Grading Emissions Totals		**7.58**	**41.47**	**374.49**	**0.72**	**21.45**	**9.91**
		Blasting & Rock Handling	Construction Equipment	1.85	9.61	96.10	0.18	0.37	0.37
			Dust from Material Movement	0.00	0.21	0.84	0.03	34.23	8.75
			Worker, Vendor, Hauling Trips	0.23	4.36	3.02	0.03	0.28	0.13
		Phase 1 Blasting & Rock Handling Totals		**2.08**	**14.18**	**99.96**	**0.24**	**34.88**	**9.25**
Phase 2	2024	Remedial Grading	Construction Equipment	3.93	20.50	205.00	0.38	0.79	0.79
			Dust from Material Movement	0.00	0.00	0.00	0.00	10.70	4.62
			Worker, Vendor, Hauling Trips	0.26	1.67	3.43	0.01	0.13	0.04
		Phase 2 Remedial Grading Emissions Totals		**4.19**	**22.17**	**208.43**	**0.39**	**11.62**	**5.45**
		Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	9.47	23.80	123.94	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**10.10**	**28.74**	**160.74**	**0.13**	**2.46**	**0.52**
	2025	Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	8.23	21.58	114.78	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**8.86**	**26.52**	**151.58**	**0.13**	**2.46**	**0.52**
	2026	Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	7.80	20.12	107.60	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**8.43**	**25.06**	**144.40**	**0.13**	**2.46**	**0.52**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.00	0.01	0.01
			Architectural Coatings	158.00	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	1.63	7.56	22.50	0.04	0.71	0.20
		Phase 2 Architectural Coating Emissions Totals		**159.70**	**7.90**	**27.39**	**0.04**	**0.72**	**0.21**
	2027	Paving	Construction Equipment	0.47	2.43	34.60	0.05	0.09	0.09
			Paving	12.20	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	0.12	0.90	1.75	0.01	0.07	0.03
		Phase 2 Paving Emissions Totals		**12.79**	**3.33**	**36.35**	**0.06**	**0.16**	**0.12**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.00	0.01	0.01
			Architectural Coatings	158.00	0.00	0.00	0.00	0.00	0.00

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
			Worker, Vendor, Hauling Trips	1.54	7.17	20.86	0.04	0.71	0.20
		Phase 2 Architectural Coating Emissions Totals		**159.61**	**7.51**	**25.75**	**0.04**	**0.72**	**0.21**
Maximum Daily Emissions									
Construction Maximum Daily Emissions (2023)				**9.74**	**56.06**	**477.51**	**0.96**	**56.33**	**19.16**
Construction Maximum Daily Emissions (2024)				**14.90**	**55.65**	**474.45**	**0.96**	**56.33**	**19.16**
Construction Maximum Daily Emissions (2025)				**9.37**	**26.52**	**187.48**	**0.13**	**2.46**	**0.52**
Construction Maximum Daily Emissions (2026)				**168.70**	**32.96**	**211.25**	**0.17**	**3.18**	**0.73**
Construction Maximum Daily Emissions (2027)				**172.51**	**10.84**	**68.72**	**0.10**	**0.88**	**0.33**
SCAQMD Regional Threshold				75	100	550	150	150	55
Threshold Exceeded?				**YES**	**NO**	**NO**	**NO**	**NO**	**NO**

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

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer									
Phase 1	2023	Mass Grading	Construction Equipment	7.08	36.80	368.00	0.69	1.42	1.42
			Dust from Material Movement	0.00	0.00	0.00	0.00	19.70	8.36
			Worker, Vendor, Hauling Trips	0.55	4.62	8.78	0.03	0.33	0.13
		Phase 1 Mass Grading Emissions Totals		**7.63**	**41.42**	**376.78**	**0.72**	**21.45**	**9.91**
		Blasting & Rock Handling	Construction Equipment	1.85	9.61	96.10	0.18	0.37	0.37
			Dust from Material Movement	0.00	0.21	0.84	0.03	34.23	8.75
			Worker, Vendor, Hauling Trips	0.26	4.33	3.79	0.03	0.28	0.13
		Phase 1 Blasting & Rock Handling Totals		**2.11**	**14.15**	**100.73**	**0.24**	**34.88**	**9.25**
	2024	Mass Grading	Construction Equipment	n/a	n/a	n/a	n/a	n/a	n/a
			Dust from Material Movement	n/a	n/a	n/a	n/a	n/a	n/a
			Worker, Vendor, Hauling Trips	n/a	n/a	n/a	n/a	n/a	n/a
		Phase 1 Mass Grading Emissions Totals		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
		Blasting & Rock Handling	Construction Equipment	n/a	n/a	n/a	n/a	n/a	n/a
			Dust from Material Movement	n/a	n/a	n/a	n/a	n/a	n/a
			Worker, Vendor, Hauling Trips	n/a	n/a	n/a	n/a	n/a	n/a
		Phase 1 Blasting & Rock Handling Totals		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Phase 2	2024	Remedial Grading	Construction Equipment	3.93	20.50	205.00	0.38	0.79	0.79
			Dust from Material Movement	0.00	0.00	0.00	0.00	10.70	4.62
			Worker, Vendor, Hauling Trips	0.27	1.57	4.39	0.01	0.13	0.04
		Phase 2 Remedial Grading Emissions Totals		**4.20**	**22.07**	**209.39**	**0.39**	**11.62**	**5.45**
		Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	10.07	21.58	162.85	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**10.70**	**26.52**	**199.65**	**0.13**	**2.46**	**0.52**
	2025	Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	8.74	20.12	150.68	0.08	2.34	0.40

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
		Phase 2 Building Construction Emissions Totals		**9.37**	**25.06**	**187.48**	**0.13**	**2.46**	**0.52**
	2026	Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	8.28	18.76	140.51	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**8.91**	**23.70**	**177.31**	**0.13**	**2.46**	**0.52**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.00	0.01	0.01
			Architectural Coatings	18.90	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	1.72	7.15	29.05	0.04	0.71	0.20
		Phase 2 Architectural Coating Emissions Totals		**20.69**	**7.49**	**33.94**	**0.04**	**0.72**	**0.21**
	2027	Paving	Construction Equipment	0.47	2.43	34.60	0.05	0.09	0.09
			Paving	12.20	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	0.13	0.84	2.22	0.01	0.07	0.03
		Phase 2 Paving Emissions Totals		**12.80**	**3.27**	**36.82**	**0.06**	**0.16**	**0.12**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.00	0.01	0.01
			Architectural Coatings	18.90	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	1.64	6.76	27.01	0.04	0.71	0.20
		Phase 2 Architectural Coating Emissions Totals		**20.61**	**7.10**	**31.90**	**0.04**	**0.72**	**0.21**
Winter									
Phase 1	2023	Mass Grading	Construction Equipment	7.08	36.80	368.00	0.69	1.42	1.42
			Dust from Material Movement	0.00	0.00	0.00	0.00	19.70	8.36
			Worker, Vendor, Hauling Trips	0.52	4.89	7.01	0.03	0.33	0.13
		Phase 1 Mass Grading Emissions Totals		**7.60**	**41.69**	**375.01**	**0.72**	**21.45**	**9.91**
		Blasting & Rock Handling	Construction Equipment	1.85	9.61	96.10	0.18	0.37	0.37
			Dust from Material Movement	0.00	0.21	0.84	0.03	34.23	8.75
			Worker, Vendor, Hauling Trips	0.24	4.55	3.23	0.03	0.28	0.13
		Phase 1 Blasting & Rock Handling Totals		**2.09**	**14.37**	**100.17**	**0.24**	**34.88**	**9.25**
	2024	Mass Grading	Construction Equipment	7.08	36.80	368.00	0.69	1.42	1.42
			Dust from Material Movement	0.00	0.00	0.00	0.00	19.70	8.36
			Worker, Vendor, Hauling Trips	0.50	4.67	6.49	0.03	0.33	0.13

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
		Phase 1 Mass Grading Emissions Totals		**7.58**	**41.47**	**374.49**	**0.72**	**21.45**	**9.91**
		Blasting & Rock Handling	Construction Equipment	1.85	9.61	96.10	0.18	0.37	0.37
			Dust from Material Movement	0.00	0.21	0.84	0.03	34.23	8.75
			Worker, Vendor, Hauling Trips	0.23	4.36	3.02	0.03	0.28	0.13
		Phase 1 Blasting & Rock Handling Totals		**2.08**	**14.18**	**99.96**	**0.24**	**34.88**	**9.25**
Phase 2	2024	Remedial Grading	Construction Equipment	3.93	20.50	205.00	0.38	0.79	0.79
			Dust from Material Movement	0.00	0.00	0.00	0.00	10.70	4.62
			Worker, Vendor, Hauling Trips	0.26	1.67	3.43	0.01	0.13	0.04
		Phase 2 Remedial Grading Emissions Totals		**4.19**	**22.17**	**208.43**	**0.39**	**11.62**	**5.45**
		Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	9.47	23.80	123.94	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**10.10**	**28.74**	**160.74**	**0.13**	**2.46**	**0.52**
	2025	Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	8.23	21.58	114.78	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**8.86**	**26.52**	**151.58**	**0.13**	**2.46**	**0.52**
	2026	Building Construction	Construction Equipment	0.63	4.94	36.80	0.05	0.12	0.12
			Worker, Vendor, Hauling Trips	7.80	20.12	107.60	0.08	2.34	0.40
		Phase 2 Building Construction Emissions Totals		**8.43**	**25.06**	**144.40**	**0.13**	**2.46**	**0.52**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.00	0.01	0.01
			Architectural Coatings	18.90	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	1.63	7.56	22.50	0.04	0.71	0.20
		Phase 2 Architectural Coating Emissions Totals		**20.60**	**7.90**	**27.39**	**0.04**	**0.72**	**0.21**
	2027	Paving	Construction Equipment	0.47	2.43	34.60	0.05	0.09	0.09
			Paving	12.20	0.00	0.00	0.00	0.00	0.00
			Worker, Vendor, Hauling Trips	0.12	0.90	1.75	0.01	0.07	0.03
		Phase 2 Paving Emissions Totals		**12.79**	**3.33**	**36.35**	**0.06**	**0.16**	**0.12**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.00	0.01	0.01
			Architectural Coatings	18.90	0.00	0.00	0.00	0.00	0.00

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
			Worker, Vendor, Hauling Trips	1.54	7.17	20.86	0.04	0.71	0.20
		Phase 2 Architectural Coating Emissions Totals		**20.51**	**7.51**	**25.75**	**0.04**	**0.72**	**0.21**
Maximum Daily Emissions									
Construction Maximum Daily Emissions (2023)				**9.74**	**56.06**	**477.51**	**0.96**	**56.33**	**19.16**
Construction Maximum Daily Emissions (2024)				**14.90**	**55.65**	**474.45**	**0.96**	**56.33**	**19.16**
Construction Maximum Daily Emissions (2025)				**9.37**	**26.52**	**187.48**	**0.13**	**2.46**	**0.52**
Construction Maximum Daily Emissions (2026)				**29.60**	**32.96**	**211.25**	**0.17**	**3.18**	**0.73**
Construction Maximum Daily Emissions (2027)				**33.41**	**10.84**	**68.72**	**0.10**	**0.88**	**0.33**
SCAQMD Regional Threshold				75	100	550	150	150	55
Threshold Exceeded?				**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

5.4 REGIONAL OPERATIONAL EMISSIONS

Operational activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-Site Equipment Source Emissions

5.4.1 AREA SOURCE EMISSIONS

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

ARCHITECTURAL COATING

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

CONSUMER PRODUCTS

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form O_3 and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

LANDSCAPE MAINTENANCE EQUIPMENT

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

5.4.2 ENERGY SOURCE EMISSIONS

The Project will not use natural gas. Criteria pollutant emissions are emitted through the generation of electricity. However, because electrical generating facilities for the Project area are

located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity are generally excluded from the evaluation of significance.

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

5.4.3 MOBILE SOURCE EMISSIONS

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

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

5.4.3.1 APPROACH FOR ANALYSIS

TRIP RATES

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

TRIP LENGTHS

To determine emissions associated with the retail, active park, and public park land uses from all vehicle types (Light-Duty-Auto vehicles [LDA], Light-Duty Trucks [LDT1][7], Light-Duty Trucks [LDT2][8], Medium-Duty Trucks [MDV], Other Buses [OBUS[9]], Urban Buses [UBUS[10]], Motorcycle [MCY], School Buses [SBUS], and Motor Homes [MH], heavy duty trucks (2-axle/Light-Heavy-Duty Trucks [LHDT1[11] and LHDT2[12]], 3-axle/Medium-Heavy-Duty Trucks [MHDT], and 4+-axle/Heavy-Heavy-Duty Trucks [HHDT]), the CalEEMod default for vehicle type, trip purpose and one-way trip length was employed. In order to determine emissions from passenger car vehicles, CalEEMod defaults for trip length and trip purpose were utilized (46). Default vehicle trip lengths for primary trips will be populated using data from the local metropolitan planning organizations/Regional Transportation Planning Agencies (MPO/RTPA). Trip type percentages and trip lengths provided by MPO/RTPAs truncate data at their demonstrative borders.

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

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

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

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

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

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

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

TABLE 5-6: PASSENGER CAR FLEET MIX

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

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

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated the SCAQMD recommended truck trip length of 14.2 miles for 2-axle and 3-axle (LHDT1, LHDT2, and MHDT) trucks and 40 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages taken from the *West Campus Upper Plateau Traffic Study*. The trip length function for the high-cube fulfillment center and the business park uses has been conservatively calculated to 32.03 miles, with an assumption of 100% primary trips for the proposed industrial land uses. This trip length assumption is higher than the CalEEMod default trip length. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1[13] & LHDT2 [14])/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the following fleet mix was utilized in this analysis:

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

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

TABLE 5-7: TRUCK FLEET MIX

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

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

FUGITIVE DUST RELATED TO VEHICULAR TRAVEL

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

5.4.4 TRU SOURCE EMISSIONS

In order to account for the possibility of refrigerated uses, trucks associated with the cold-storage land use are assumed to also have TRUs. Therefore, for modeling purposes 188 trucks (376 two-way truck trips per day) have the potential to include TRUs. TRUs are accounted for during on-site and off-site travel. The TRU calculations are based on EMissions FACtor Model version 2021 (EMFAC2021), developed by the CARB. EMFAC2021 does not provide emission rates per hour or mile as with the on-road emission model and only provides emission inventories. Emission results are produced in tons per day while all activity, fuel consumption and horsepower hours were reported at annual levels. The emission inventory is based on specific assumptions including the average horsepower rating of specific types of equipment and the hours of operation annually. These assumptions are not always consistent with assumptions used in the modeling of project level emissions. Therefore, the emissions inventory was converted into emission rates to accurately calculate emissions from TRU operation associated with project level details. This was accomplished by converting the annual horsepower hours to daily operational characteristics and converting the daily emission levels into hourly emission rates based on the total emission of each criteria pollutant by equipment type and the average daily hours of operation.

5.4.5 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. In accordance with the County of Riverside Good Neighbor Policy for Logistics and Warehouse/Distribution uses it is assumed that all on-site cargo handling equipment would be electrically powered.

5.4.6 OPERATIONAL EMISSIONS SUMMARY

Project mobile source emissions impacts are dependent on both overall daily vehicle trip generation and the effect of the Project on peak hour traffic volumes and traffic operations in the vicinity of the Project. The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project.

The estimated operational-source emissions for the proposed Project are summarized on Table 5-8. Detailed operational model outputs are presented in Appendices 5.4 through 5.7. As shown, the proposed Project will exceed the applicable SCAQMD thresholds for VOC, NO_X, CO, and PM_{10}.

TABLE 5-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	174.00	308.00	2,148.00	6.90	233.00	46.30
Area Source	158.00	1.82	217.00	0.01	0.29	0.39
Energy Source	0.00	0.00	0.00	0.00	0.00	0.00
TRU Source	13.62	14.91	1.62	0.00	0.64	0.58
Total Maximum Daily Emissions	**345.62**	**324.73**	**2,366.62**	**6.91**	**233.93**	**47.27**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**NO**
Winter						
Mobile Source	332.00	310.00	2,364.00	6.91	233.00	46.70
Area Source	122.00	0.00	0.00	0.00	0.00	0.00
Energy Source	0.00	0.00	0.00	0.00	0.00	0.00
TRU Source	13.62	14.91	1.62	0.00	0.64	0.58
Total Maximum Daily Emissions	**467.62**	**324.91**	**2,365.62**	**6.91**	**233.64**	**47.28**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**NO**

5.5 CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

IMPACTS WITHOUT MITIGATION

As shown in Table 5-9, Without mitigation, localized construction emissions would not exceed the applicable SCAQMD LSTs for emissions of any criterial pollutant. For analytical purposes, emissions associated with peak mass site grading and blasting & rock handling activities are considered for purposes of LSTs since these phases represents the maximum localized emissions that would occur. Any other construction phases of development that overlap would result in

lesser emissions and consequently lesser impacts than what is disclosed herein. Outputs from the model runs for unmitigated construction LSTs are provided in Appendix 5.1. AERMOD modeling outputs for construction are provided in Appendix 5.5.

TABLE 5-9: LOCALIZED SIGNIFICANCE SUMMARY – PEAK CONSTRUCTION (WITHOUT MITIGATION)

Peak Construction	CO		NO_X	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	0.06	0.02	3.89E-03	1.68	0.39
Background Concentration [A]	0.143	0.115	0.066		
Total Concentration	**0.21**	**0.14**	**0.07**	**0.56**	**0.26**
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

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

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

5.6 OPERATIONAL-SOURCE LOCALIZED EMISSIONS

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

SUMMARY OF OPERATIONAL LST IMPACTS

The on-site operational emissions for NO_X, CO, PM_{10}, and $PM_{2.5}$ are compared to the respective LSTs as previously shown in Table 4-5. As shown on Table 5-10 operational emissions will not exceed the LST thresholds. Therefore, the Project will have a less than significant localized impact during operational activity and no mitigation is required.

TABLE 5-10: LOCALIZED SIGNIFICANCE SUMMARY – OPERATION

Peak Operation	CO		NO_X	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	4.11E-02	3.05E-02	3.36E-03	0.91	0.21
Background Concentration [A]	0.143	0.115	0.066		
Total Concentration	**0.18**	**0.15**	**0.07**	**0.91**	**0.21**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

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

Note: PM_{10} and $PM_{2.5}$ concentrations are expressed in $\mu g/m^3$. All others are expressed in ppm

5.7 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hotspots." Further, detailed modeling of Project-specific CO "hotspots" is not needed to reach this conclusion. An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. At the time of the SCAQMD's *CEQA Air Quality Handbook (1993)* (*1993 CEQA Handbook*), the SCAB was designated nonattainment under the CAAQS and NAAQS for CO (47). The determination of a potential CO hotspot is focused on the mobile-source vehicular activity that would occur at intersections in the Project-area. Aircraft-related emissions are not concentrated enough, in a particular location such that they would have a propensity to result in a CO hotspot and therefore aircraft emissions are not a consideration in determining CO hotspots.

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

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 5-11.

TABLE 5-11: CO MODEL RESULTS

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

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

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration

measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (48). In contrast, an adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 1.9 ppm and 1.4 ppm, respectively (data from Metropolitan Riverside County 1 station for 2020). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

The 2003 AQMP, and as previously shown in Table 5-11, estimated that the 1-hour concentration for the Wilshire Boulevard and Veteran Avenue intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).[15] The highest trips on a segment of road that the Project would generate is 87,515 vehicles per day on Meridian Parkway and Van Buren Boulevard (4).

Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 5-12. The busiest intersection evaluated for traffic volumes was at La Cienega Boulevard and Century Boulevard, which has a traffic volume of approximately 8,674 vph (48). As shown on Table 5-13, the highest trips on a segment of road for the proposed Project is 8,669 vph on Alessandro Boulevard/Arlington Avenue and Chicago Avenue. As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP. The Project considered herein would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO "hot spots" are not an environmental impact of concern for the Project.

TABLE 5-12: TRAFFIC VOLUMES

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

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

TABLE 5-13: OPENING YEAR CUMULATIVE (2028) WITH PROJECT TRAFFIC VOLUMES

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

5.8 AIR QUALITY MANAGEMENT PLANNING

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

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

In March 2017, the SCAQMD released the *2016 AQMP*. The *2016 AQMP* continues to evaluate current integrated strategies and control measures to meet the NAAQS, and to explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (49). Similar to the 2012 AQMP, the *2016 AQMP* incorporates scientific and technological information and planning assumptions, including the *RTP/SCS*, a planning document that supports the integration of land use and transportation to help the region meet the federal Clean Air Act requirements (20). The Project's consistency with the AQMP will be determined using the *2016 AQMP* as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (50). These indicators are discussed below:

5.8.1 CONSISTENCY CRITERION NO. 1

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

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

Construction Impacts – Consistency Criterion 1

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if LSTs or regional significance thresholds were exceeded. As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds after implementation of MM AQ-1. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

The Project would not exceed the applicable LSTs for operational activity. However, the Project's operational-source emissions are anticipated to exceed the regional thresholds of significance for VOC, NO_X, CO, and PM_{10} emissions. MM AQ-2 through MM AQ-15 are designed to reduce Project operational-source VOCs, NO_X, CO, and PM_{10} emissions. However, as there is no way to meaningfully quantify these reductions in CalEEMod, no numeric emissions credit has been taken in the analysis. As such, even with application of MM AQ-2 through MM AQ-15, Project operational-source emissions impacts would be significant and unavoidable. As such, the Project has the potential to result in a significant impact with respect to this criterion and the Project would have the potential to conflict with the AQMP according to this criterion.

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

5.8.2 CONSISTENCY CRITERION NO. 2

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

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by jurisdictions in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in the March JPA General Plan is considered to be consistent with the AQMP.

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance.

Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

Operational Impacts – Consistency Criterion 2

The March JPA General Plan land use designation for the Project site is Business Park and Park/Recreation/Open Space. The Business Park designation includes administrative, financial, governmental, and community support services; research and development centers; light manufacturing; parcel delivery terminal; vocational education and training facilities; business and trades schools; and emergency services. Business Park areas are generally served by arterial roadways, providing automobile and transit access. These areas are characterized as major employment concentrations. Development in this category, except for warehousing, is generally within a campus-like setting or cluster development pattern. Outdoor storage as a primary use is prohibited. The Park/Recreation/Open Space designation includes all passive and active park or recreation areas whether private or public in the Planning Area. Active recreation activities include outdoor athletic fields and public parklands. Passive activities include natural preserves with trails, along with designated arid natural open space areas. The Park/Recreation/Open Space uses will also include civic uses such as police and fire substations (51).

The proposed Project (as shown on Exhibit 1-B) consists of the following uses:

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

Portions of the Project site are not consistent with the current land use designation. As such, the Project proposes General Plan amendments and the Specific Plan which will modify the land use designations and zoning.

As the Project would result in VOC, NO_X, CO, and PM_{10} emission exceedances, the Project would result in significant and unavoidable impacts and is therefore determined to be inconsistent with the second criterion.

5.8.3 AQMP CONSISTENCY CONCLUSION

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

5.9 RTP/SCS CONSISTENCY

The proposed Project would increase regional employment by approximately 2,595 jobs (52). According to Connect SoCal (SCAG's *2020-2045 RTP/SCS*), employment within Riverside County in 2019 is approximately 812,800 jobs with an anticipated increase to approximately 1,102,700 jobs by 2045, a growth of approximately 289,900 jobs (53). The proposed Project represents 0.90% of the anticipated increase in jobs, and therefore, would not result in long-term operational employment growth that exceeds planned growth projections in the RTP/SCS or the AQMP, or result in employment growth that would substantially add to traffic congestion. As such, the Project is consistent with the *2020-2045 RTP/SCS*.

5.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

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

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

Results of the LST analysis indicate that the Project would not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO "hotspot." Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

5.11 ODORS

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

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

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants

- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

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

5.12 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the SCAB as nonattainment for O_3, PM_{10}, and $PM_{2.5}$ while the NAAQS designates the SCAB as nonattainment for O_3 and $PM_{2.5}$.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (55). In this report the SCAQMD clearly states (Page D-3):

> *…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*
>
> *Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.*

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

CONSTRUCTION IMPACTS

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

OPERATIONAL-SOURCE EMISSIONS

The proposed Project has the potential to result in cumulative impacts associated with on-going operations for emissions of VOC, NO_X, CO, and PM_{10}. Therefore, the proposed Project would have the potential to result in a cumulatively considerable significant impact with respect to operational activity.

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7 CERTIFICATIONS

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

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Master of Science in Environmental Studies
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AEP – Association of Environmental Planners
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Planned Communities and Urban Infill – Urban Land Institute • June 2011
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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

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APPENDIX C

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

APPENDIX C

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

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

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

Ambient Air Quality Standards

(Updated 5/4/16)

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page …

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Area Designations for the State Ambient Air Quality Standards

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

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

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

FIGURE 1

Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 1

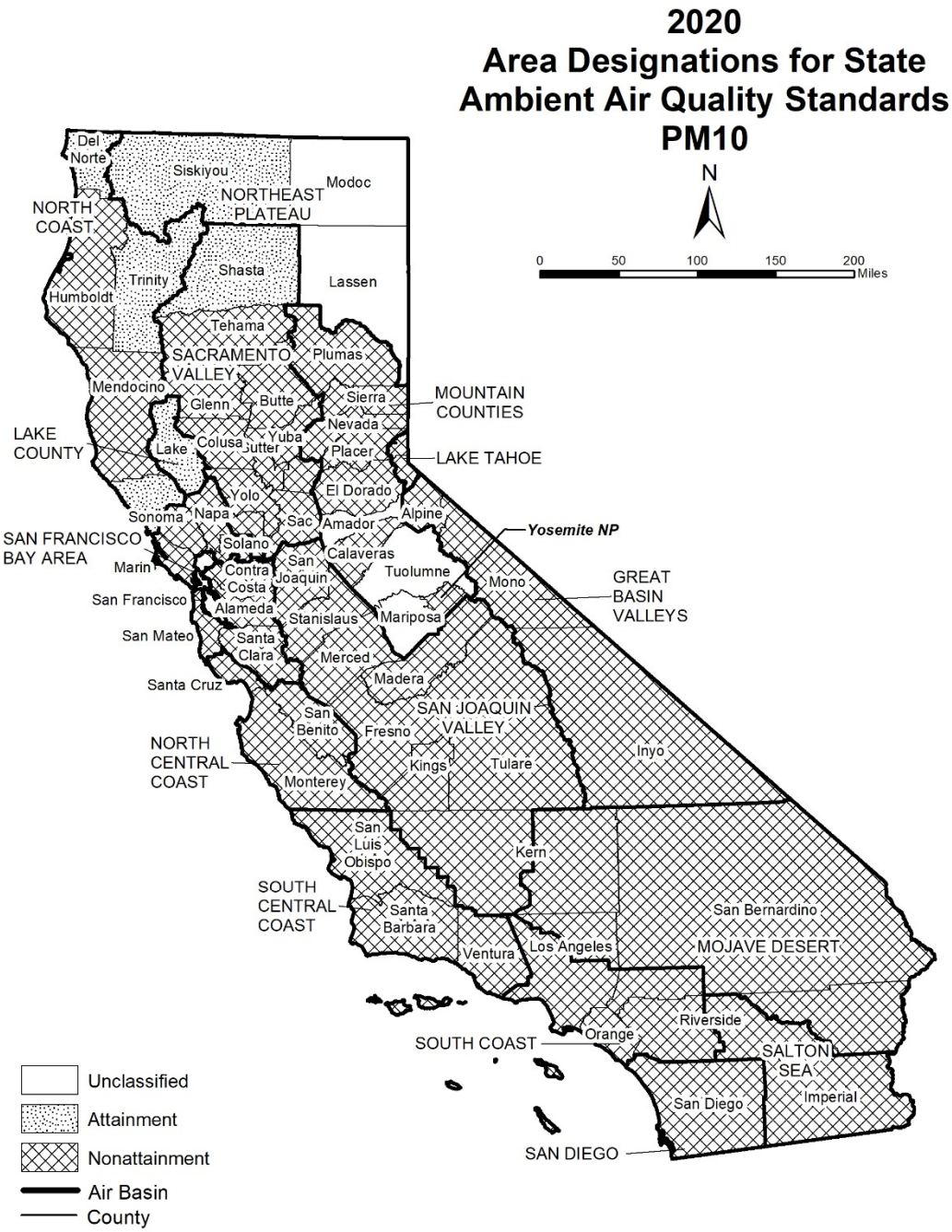
California Ambient Air Quality Standards
Area Designations for Ozone [1]

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			X	
Inyo County	X			
Mono County	X			
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN				X
MOJAVE DESERT AIR BASIN	X			
MOUNTAIN COUNTIES AIR BASIN				
Amador County		X		
Calaveras County	X			
El Dorado County (portion)	X			
Mariposa County	X			
Nevada County	X			
Placer County (portion)	X			
Plumas County			X	
Sierra County			X	
Tuolumne County	X			
NORTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN				X

	N	NA-T	U	A
NORTHEAST PLATEAU AIR BASIN				X
SACRAMENTO VALLEY AIR BASIN				
Colusa and Glenn Counties				X
Shasta County		X		
Sutter/Yuba Counties				
Sutter Buttes	X			
Remainder of Sutter County	X			
Yuba County	X			
Yolo/Solano Counties		X		
Remainder of Air Basin	X			
SALTON SEA AIR BASIN	X			
SAN DIEGO AIR BASIN	X			
SAN FRANCISCO BAY AREA AIR BASIN	X			
SAN JOAQUIN VALLEY AIR BASIN	X			
SOUTH CENTRAL COAST AIR BASIN				
San Luis Obispo County	X			
Santa Barbara County	X			
Ventura County	X			
SOUTH COAST AIR BASIN	X			

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

FIGURE 2



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 2

California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM_{10})

	N	U	A
GREAT BASIN VALLEYS AIR BASIN	X		
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN	X		
MOJAVE DESERT AIR BASIN	X		
MOUNTAIN COUNTIES AIR BASIN			
Amador County		X	
Calaveras County	X		
El Dorado County (portion)	X		
Mariposa County			
- Yosemite National Park	X		
- Remainder of County		X	
Nevada County	X		
Placer County (portion)	X		
Plumas County	X		
Sierra County	X		
Tuolumne County		X	

	N	U	A
NORTH CENTRAL COAST AIR BASIN	X		
NORTH COAST AIR BASIN			
Del Norte, Sonoma (portion) and Trinity Counties			X
Remainder of Air Basin	X		
NORTHEAST PLATEAU AIR BASIN			
Siskiyou County			X
Remainder of Air Basin		X	
SACRAMENTO VALLEY AIR BASIN			
Shasta County			X
Remainder of Air Basin	X		
SALTON SEA AIR BASIN	X		
SAN DIEGO AIR BASIN	X		
SAN FRANCISCO BAY AREA AIR BASIN	X		
SAN JOAQUIN VALLEY AIR BASIN	X		
SOUTH CENTRAL COAST AIR BASIN	X		
SOUTH COAST AIR BASIN	X		

FIGURE 3

Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 3

California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter ($PM_{2.5}$)

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			
San Bernardino County			
- County portion of federal Southeast Desert Modified AQMA for Ozone[1]			X
Remainder of Air Basin			X
MOUNTAIN COUNTIES AIR BASIN			
Plumas County			
- Portola Valley[2]	X		
Remainder of Air Basin		X	
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X
SACRAMENTO VALLEY AIR BASIN			
Butte County	X		
Colusa County			X
Glenn County			X
Placer County (portion)			X
Sacramento County			X
Shasta County			X
Sutter and Yuba Counties			X
Remainder of Air Basin		X	

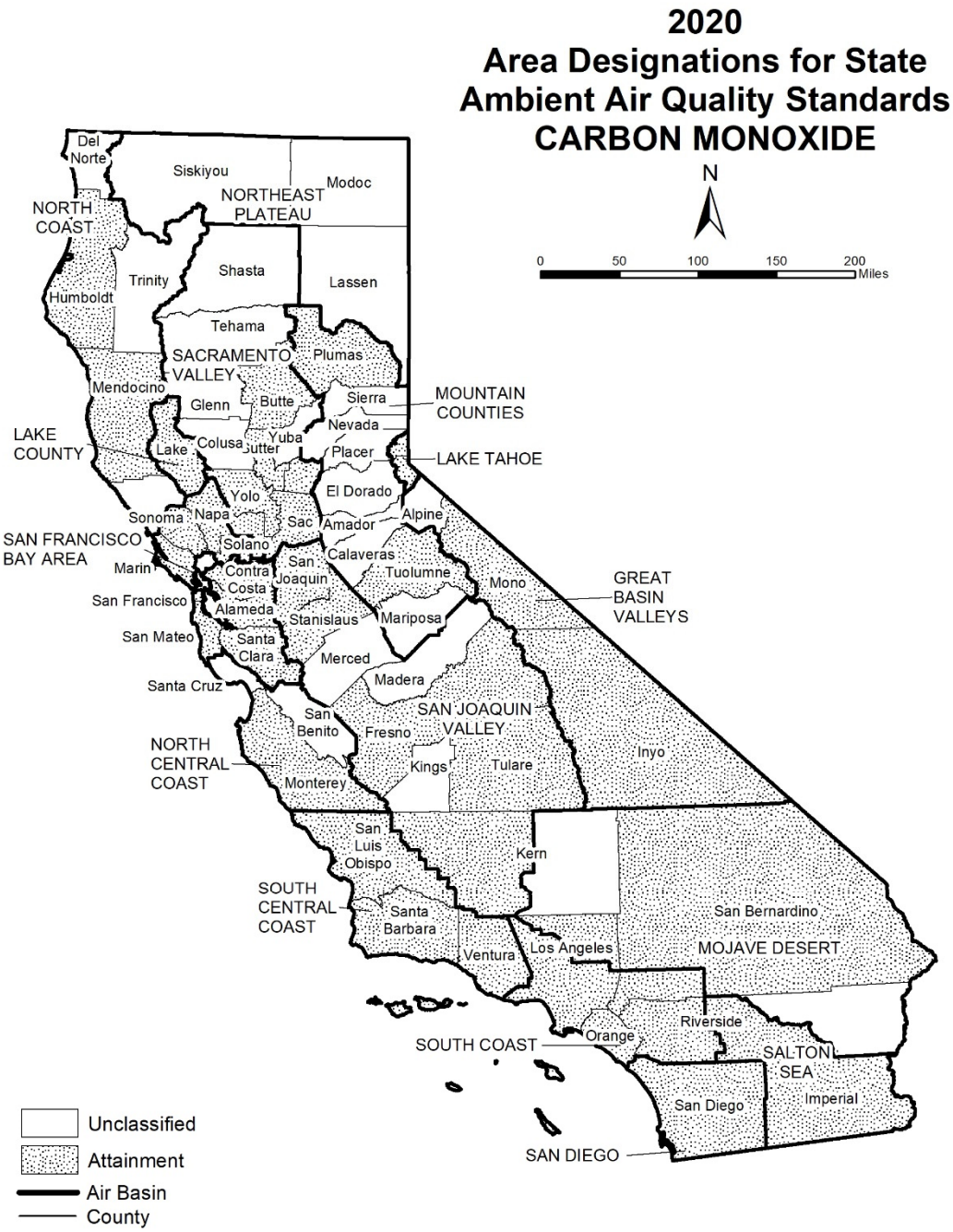
	N	U	A
SALTON SEA AIR BASIN			
Imperial County			
- City of Calexico[3]	X		
Remainder of Air Basin			X
SAN DIEGO AIR BASIN	X		
SAN FRANCISCO BAY AREA AIR BASIN	X		
SAN JOAQUIN VALLEY AIR BASIN	X		
SOUTH CENTRAL COAST AIR BASIN			
San Luis Obispo County			X
Santa Barbara County		X	
Ventura County			X
SOUTH COAST AIR BASIN	X		

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

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

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

FIGURE 4



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 4

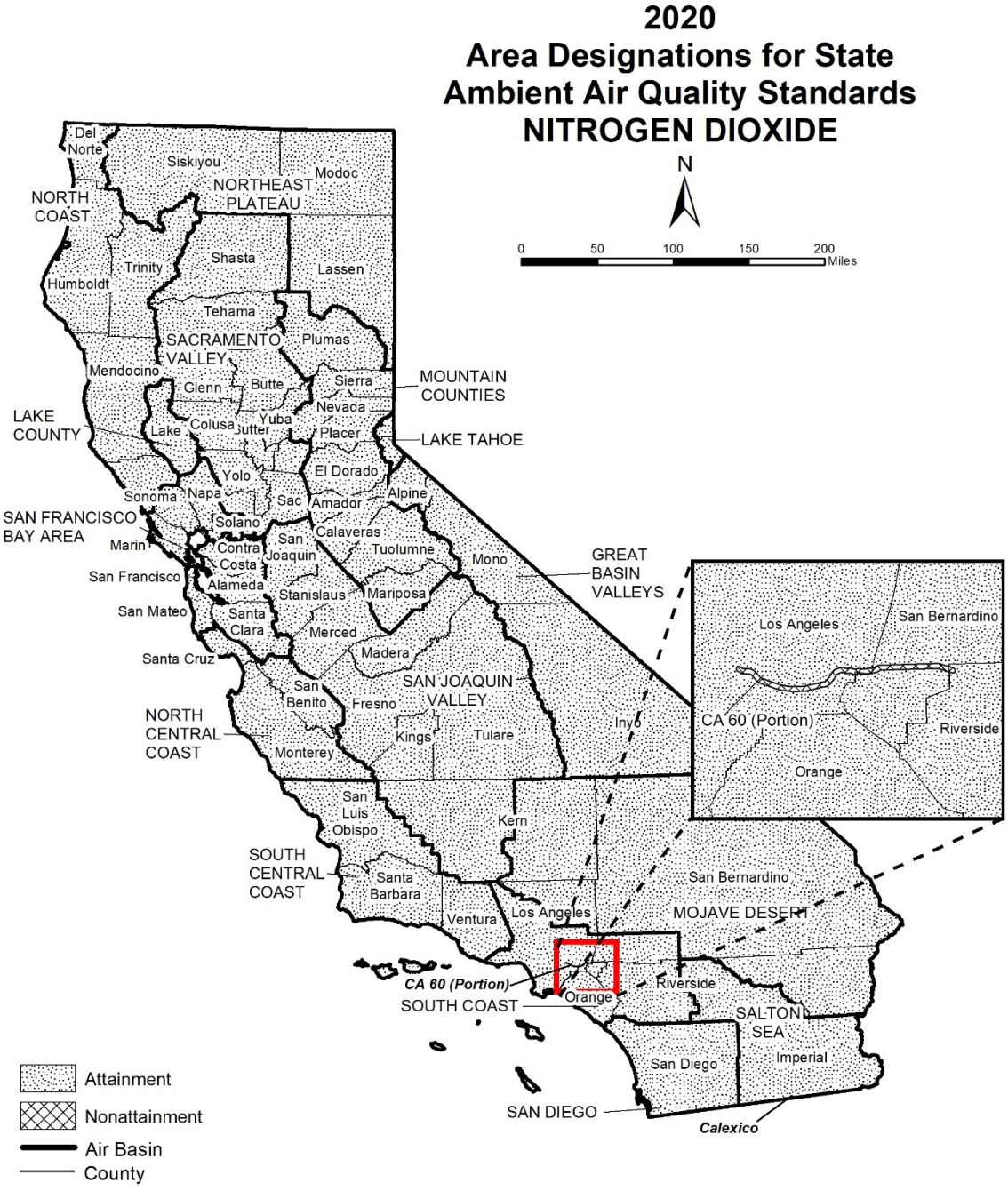
California Ambient Air Quality Standards
Area Designation for Carbon Monoxide*

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			X	
Inyo County				X
Mono County				X
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN				X
MOJAVE DESERT AIR BASIN				
Kern County (portion)			X	
Los Angeles County (portion)				X
Riverside County (portion)			X	
San Bernardino County (portion)				X
MOUNTAIN COUNTIES AIR BASIN				
Amador County			X	
Calaveras County			X	
El Dorado County (portion)			X	
Mariposa County			X	
Nevada County			X	
Placer County (portion)			X	
Plumas County				X
Sierra County			X	
Tuolumne County				X
NORTH CENTRAL COAST AIR BASIN				
Monterey County				X
San Benito County			X	
Santa Cruz County			X	
NORTH COAST AIR BASIN				
Del Norte County			X	
Humboldt County				X
Mendocino County				X
Sonoma County (portion)			X	
Trinity County			X	
NORTHEAST PLATEAU AIR BASIN			X	

	N	NA-T	U	A
SACRAMENTO VALLEY AIR BASIN				
Butte County				X
Colusa County			X	
Glenn County			X	
Placer County (portion)				X
Sacramento County				X
Shasta County			X	
Solano County (portion)				X
Sutter County				X
Tehama County			X	
Yolo County				X
Yuba County			X	
SALTON SEA AIR BASIN				X
SAN DIEGO AIR BASIN				X
SAN FRANCISCO BAY AREA AIR BASIN				X
SAN JOAQUIN VALLEY AIR BASIN				
Fresno County				X
Kern County (portion)				X
Kings County			X	
Madera County			X	
Merced County			X	
San Joaquin County				X
Stanislaus County				X
Tulare County				X
SOUTH CENTRAL COAST AIR BASIN				X
SOUTH COAST AIR BASIN				X

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

FIGURE 5



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 5

California Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X

	N	U	A
SACRAMENTO VALLEY AIR BASIN			X
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			
CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
Remainder of Air Basin			X

FIGURE 6

Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 6

California Ambient Air Quality Standards
Area Designation for Sulfur Dioxide*

	N	A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOJAVE DESERT AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X

	N	A
SACRAMENTO VALLEY AIR BASIN		X
SALTON SEA AIR BASIN		X
SAN DIEGO AIR BASIN		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		X

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

FIGURE 7

Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 7

California Ambient Air Quality Standards
Area Designation for Sulfates

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X

	N	U	A
SACRAMENTO VALLEY AIR BASIN			X
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			X

FIGURE 8

Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 8

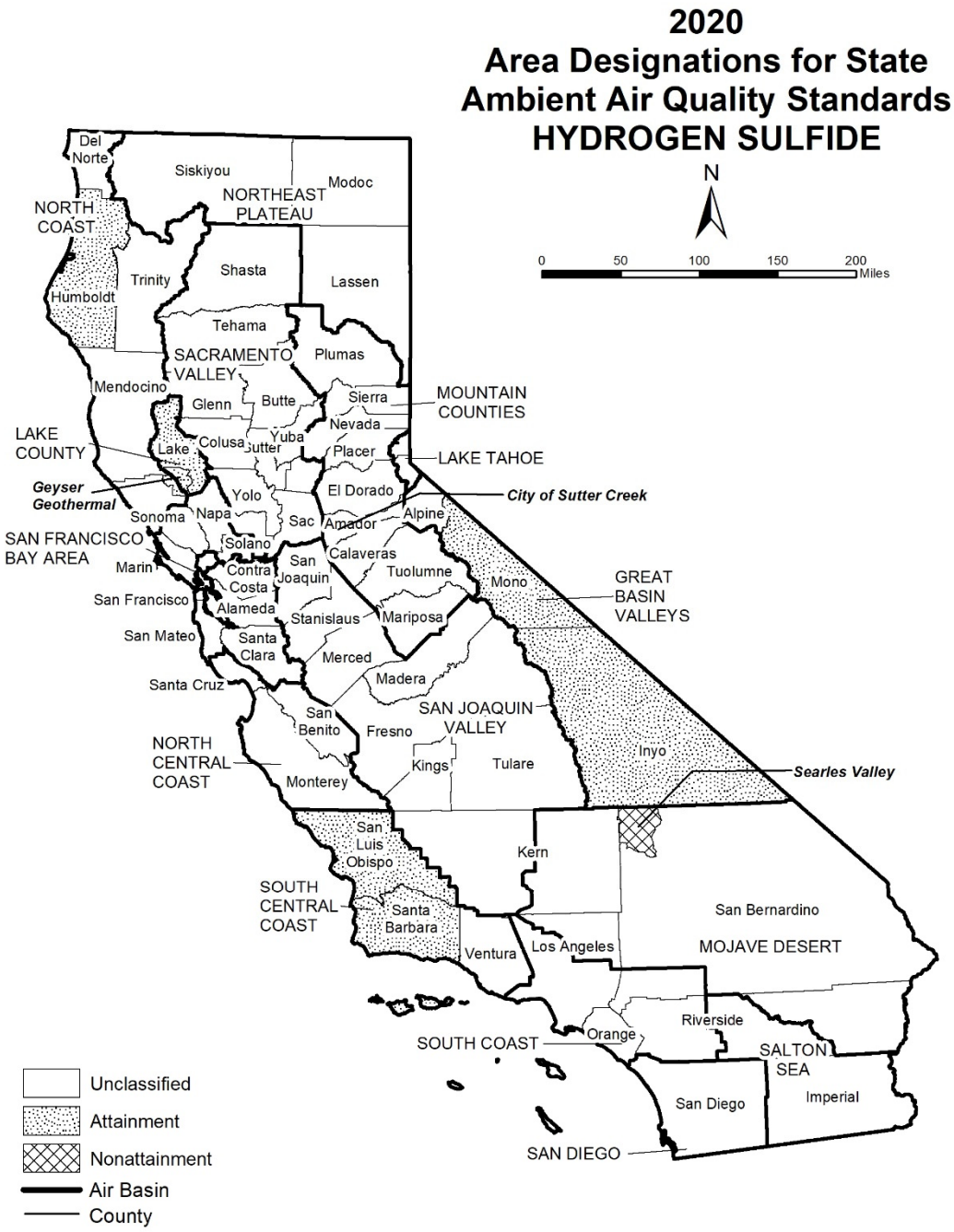
California Ambient Air Quality Standards
Area Designations for Lead (particulate)*

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			X
LAKE COUNTY AIR BASIN			X
LAKE TAHOE AIR BASIN			X
MOJAVE DESERT AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X
SACRAMENTO VALLEY AIR BASIN			X

	N	U	A
SALTON SEA AIR BASIN			X
SAN DIEGO AIR BASIN			X
SAN FRANCISCO BAY AREA AIR BASIN			X
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN			X
SOUTH COAST AIR BASIN			X

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

FIGURE 9



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 9

California Ambient Air Quality Standards
Area Designation for Hydrogen Sulfide*

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			X	
Inyo County				X
Mono County				X
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN			X	
MOJAVE DESERT AIR BASIN				
Kern County (portion)			X	
Los Angeles County (portion)			X	
Riverside County (portion)			X	
San Bernardino County (portion)				
- Searles Valley Planning Area[1]	X			
- Remainder of County			X	
MOUNTAIN COUNTIES AIR BASIN				
Amador County				
- City of Sutter Creek	X			
- Remainder of County			X	
Calaveras County			X	
El Dorado County (portion)			X	
Mariposa County			X	
Nevada County			X	
Placer County (portion)			X	
Plumas County			X	
Sierra County			X	
Tuolumne County			X	

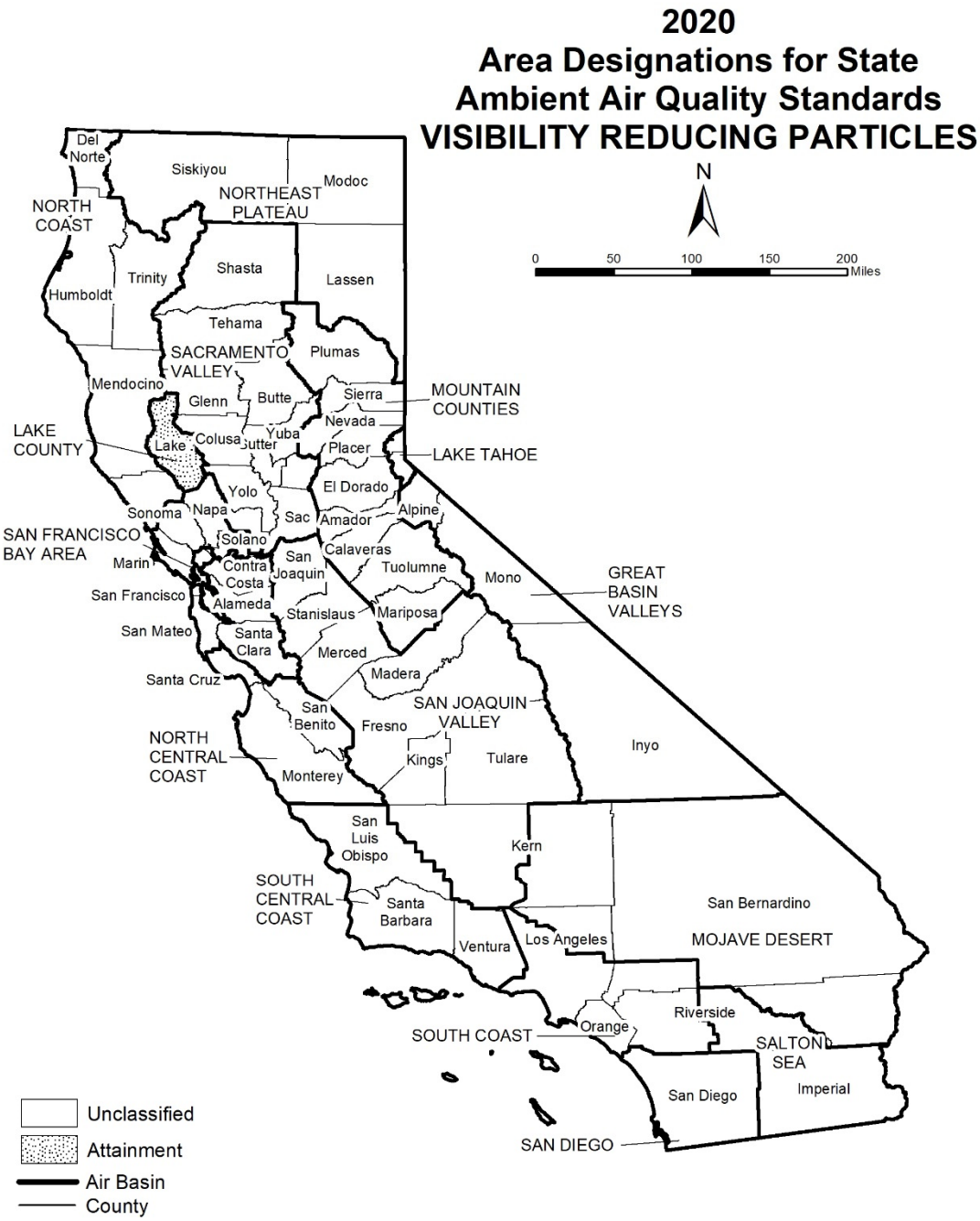
	N	NA-T	U	A
NORTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN				
Del Norte County			X	
Humboldt County				X
Mendocino County			X	
Sonoma County (portion)				
- Geyser Geothermal Area[2]				X
- Remainder of County			X	
Trinity County			X	
NORTHEAST PLATEAU AIR BASIN			X	
SACRAMENTO VALLEY AIR BASIN			X	
SALTON SEA AIR BASIN			X	
SAN DIEGO AIR BASIN			X	
SAN FRANCISCO BAY AREA AIR BASIN			X	
SAN JOAQUIN VALLEY AIR BASIN			X	
SOUTH CENTRAL COAST AIR BASIN				
San Luis Obispo County				X
Santa Barbara County				X
Ventura County			X	
SOUTH COAST AIR BASIN			X	

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

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

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

FIGURE 10



Last Updated: October 2020
Air Quality Planning and Science Division, CARB

TABLE 10

California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles

	N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X	
LAKE COUNTY AIR BASIN				X
LAKE TAHOE AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X	

	N	NA-T	U	A
SACRAMENTO VALLEY AIR BASIN			X	
SALTON SEA AIR BASIN			X	
SAN DIEGO AIR BASIN			X	
SAN FRANCISCO BAY AREA AIR BASIN			X	
SAN JOAQUIN VALLEY AIR BASIN			X	
SOUTH CENTRAL COAST AIR BASIN			X	
SOUTH COAST AIR BASIN			X	

Area Designations for the National Ambient Air Quality Standards

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

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

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

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

Designation Categories

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

- Attainment (A)
- Nonattainment (N)
- Unclassifiable (U)

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment (N)
- Unclassifiable/Attainment (U/A)

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

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

On January 22, 2010, the U.S. EPA established a new national 1-hour NO_2 standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO_2). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment (N),
- Unclassifiable (U), and
- Unclassifiable/Attainment (U/A).

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO_2 standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

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

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

Designation Areas

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

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

FIGURE 11

Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 11

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

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		
Amador County	X	
Calaveras County	X	
El Dorado County (portion)[1]	X	
Mariposa County	X	
Nevada County		
- Western Nevada County	X	
- Remainder of County		X
Placer County (portion)[1]	X	
Plumas County		X
Sierra County		X
Tuolumne County	X	
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		
Butte County	X	
Colusa County		X
Glenn County		X
Sacramento Metro Area[1]	X	
Shasta County		X
Sutter County		
- Sutter Buttes	X	
- Southern portion of Sutter County[1]	X	
- Remainder of Sutter County		X
Tehama County		
- Tuscan Buttes	X	
- Remainder of Tehama County		X

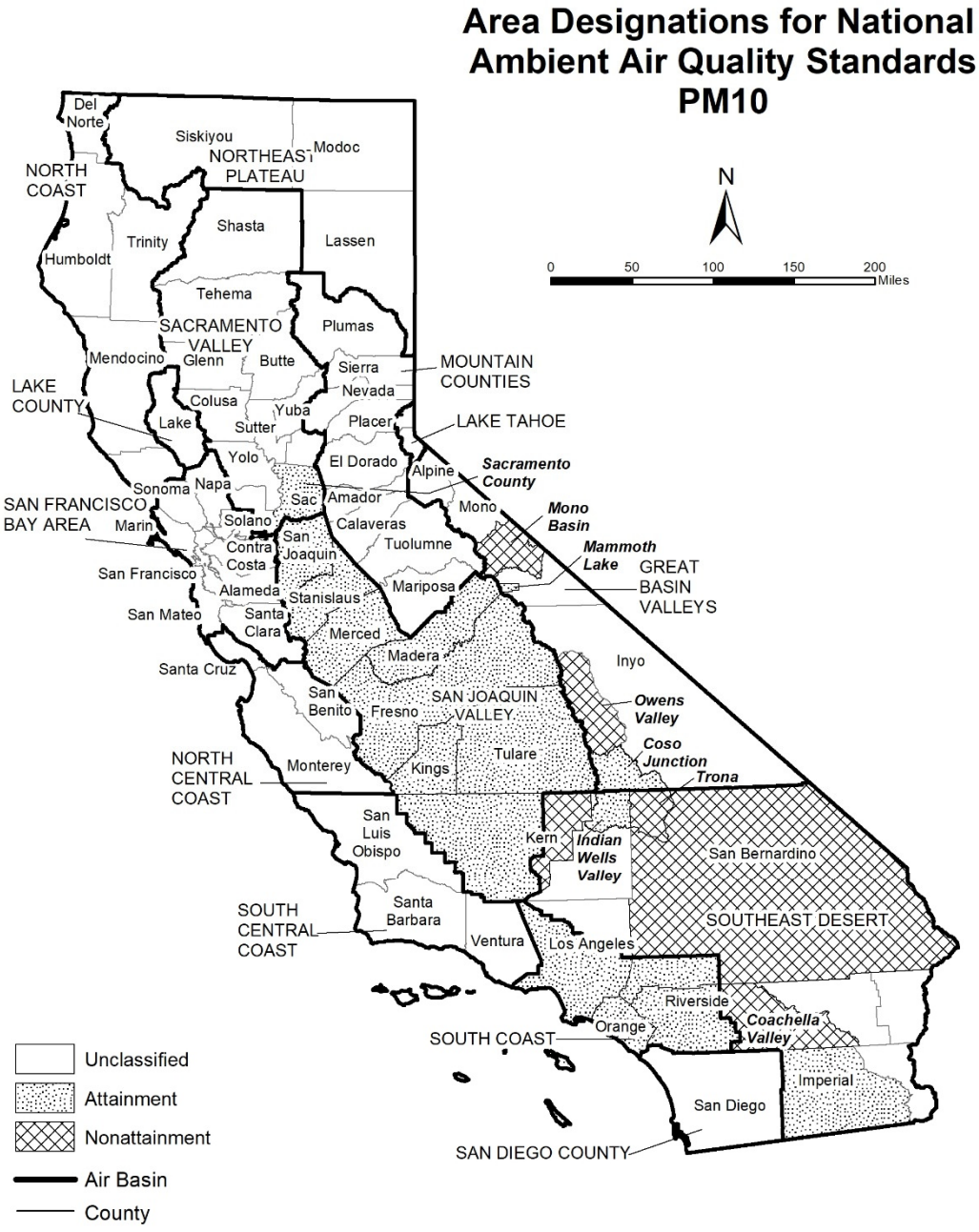
	N	U/A
SACRAMENTO VALLEY AIR BASIN (cont.)		
Yolo County[1]	X	
Yuba County		X
SAN DIEGO COUNTY	X	
SAN FRANCISCO BAY AREA AIR BASIN	X	
SAN JOAQUIN VALLEY AIR BASIN	X	
SOUTH CENTRAL COAST AIR BASIN[2]		
San Luis Obispo County		
- Eastern San Luis Obispo County	X	
- Remainder of County		X
Santa Barbara County		X
Ventura County		
- Area excluding Anacapa and San Nicolas Islands	X	
- Channel Islands[2]		X
SOUTH COAST AIR BASIN[2]	X	
SOUTHEAST DESERT AIR BASIN		
Kern County (portion)	X	
- Indian Wells Valley		X
Imperial County	X	
Los Angeles County (portion)	X	
Riverside County (portion)		
- Coachella Valley	X	
- Non-AQMA portion		X
San Bernardino County		
- Western portion (AQMA)	X	
- Eastern portion (non-AQMA)		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

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

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

FIGURE 12



Source Date:
October 2020
Air Quality Planning and Science Division

TABLE 12

National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM_{10})*

	N	U	A
GREAT BASIN VALLEYS AIR BASIN			
Alpine County		X	
Inyo County			
- Owens Valley Planning Area	X		
- Coso Junction			X
- Remainder of County		X	
Mono County			
- Mammoth Lake Planning Area			X
- Mono Lake Basin	X		
- Remainder of County		X	
LAKE COUNTY AIR BASIN		X	
LAKE TAHOE AIR BASIN		X	
MOUNTAIN COUNTIES AIR BASIN			
Placer County (portion)[1]		X	
Remainder of Air Basin		X	
NORTH CENTRAL COAST AIR BASIN		X	
NORTH COAST AIR BASIN		X	
NORTHEAST PLATEAU AIR BASIN		X	
SACRAMENTO VALLEY AIR BASIN			
Butte County		X	
Colusa County		X	
Glenn County		X	
Placer County (portion)[1]		X	
Sacramento County[2]			X
Shasta County		X	
Solano County (portion)		X	
Sutter County		X	
Tehama County		X	
Yolo County		X	
Yuba County		X	

	N	U	A
SAN DIEGO COUNTY		X	
SAN FRANCISCO BAY AREA AIR BASIN		X	
SAN JOAQUIN VALLEY AIR BASIN			X
SOUTH CENTRAL COAST AIR BASIN		X	
SOUTH COAST AIR BASIN			X
SOUTHEAST DESERT AIR BASIN			
Eastern Kern County			
- Indian Wells Valley			X
- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X	
Imperial County			
- Imperial Valley Planning Area[3]			X
- Remainder of County		X	
Los Angeles County (portion)		X	
Riverside County (portion)			
- Coachella Valley[4]	X		
- Non-AQMA portion		X	
San Bernardino County			
- Trona	X		
- Remainder of County	X		

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

[1] U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.

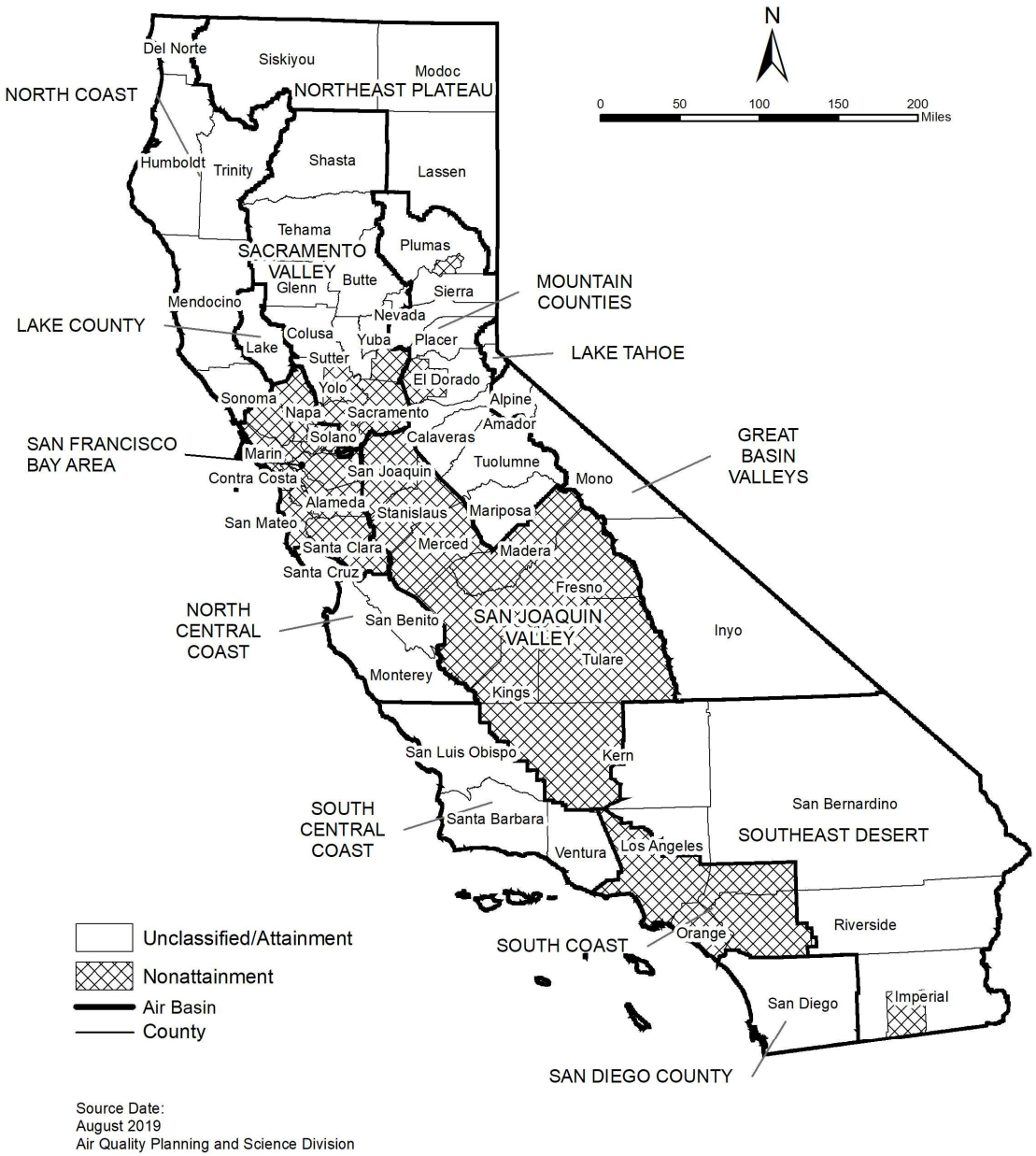
[2] Air quality in Sacramento County meets the national PM_{10} standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

[3] The request for redesignation to attainment for the Imperial Valley Planning Area was approved by U.S. EPA and in September 2020, effective October 2020.

[4] Air quality in Coachella Valley meets the national PM_{10} standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13

Area Designations for National Ambient Air Quality Standards PM2.5



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 13

National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter ($PM_{2.5}$)

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		
Plumas County		
- Portola Valley Portion of Plumas	X	
- Remainder of Plumas County		X
Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		
Sacramento Metro Area[1]	X	
Sutter County		X
Yuba County (portion)		X
Remainder of Air Basin		X

	N	U/A
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN[2]	X	
SAN JOAQUIN VALLEY AIR BASIN	X	
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN[3]	X	
SOUTHEAST DESERT AIR BASIN		
Imperial County (portion)[4]	X	
Remainder of Air Basin		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour $PM_{2.5}$ standard as well as the 1997 and 2012 $PM_{2.5}$ annual standards.

[1] For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

[2] Air quality in this area meets the national $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

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

[4] That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national $PM_{2.5}$ standards. A Determination of Attainment for the 2006 24-hour $PM_{2.5}$ standard was made by U.S. EPA in June 2017.

FIGURE 14

Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 14

National Ambient Air Quality Standards
Area Designations for Carbon Monoxide*

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X

	N	U/A
SACRAMENTO VALLEY AIR BASIN		X
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		X
SOUTHEAST DESERT AIR BASIN		X

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

FIGURE 15

Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 15

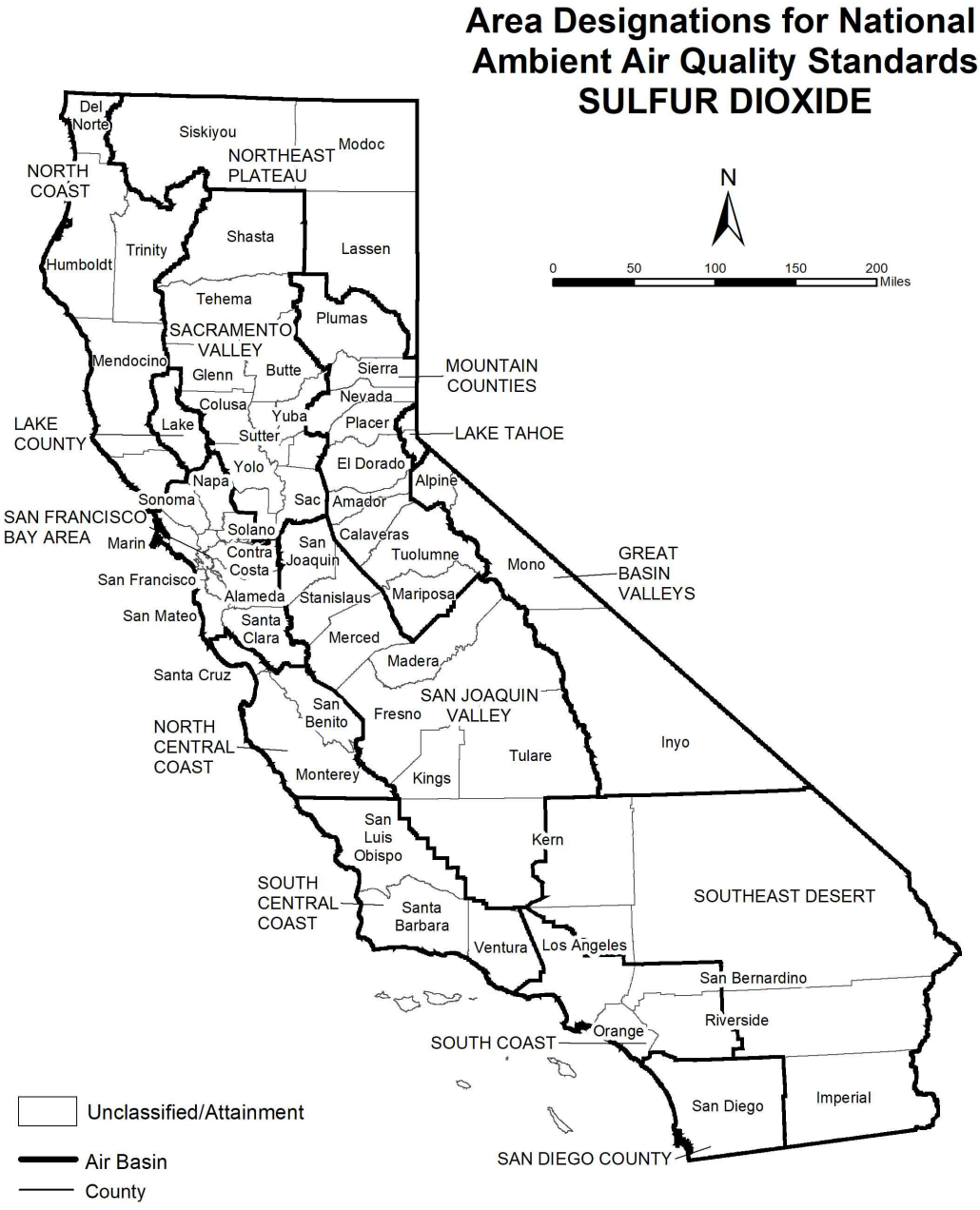
National Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide*

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X

	N	U/A
SACRAMENTO VALLEY AIR BASIN		X
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		X
SOUTHEAST DESERT AIR BASIN		X

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

FIGURE 16



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 16

National Ambient Air Quality Standards
Area Designations for Sulfur Dioxide*

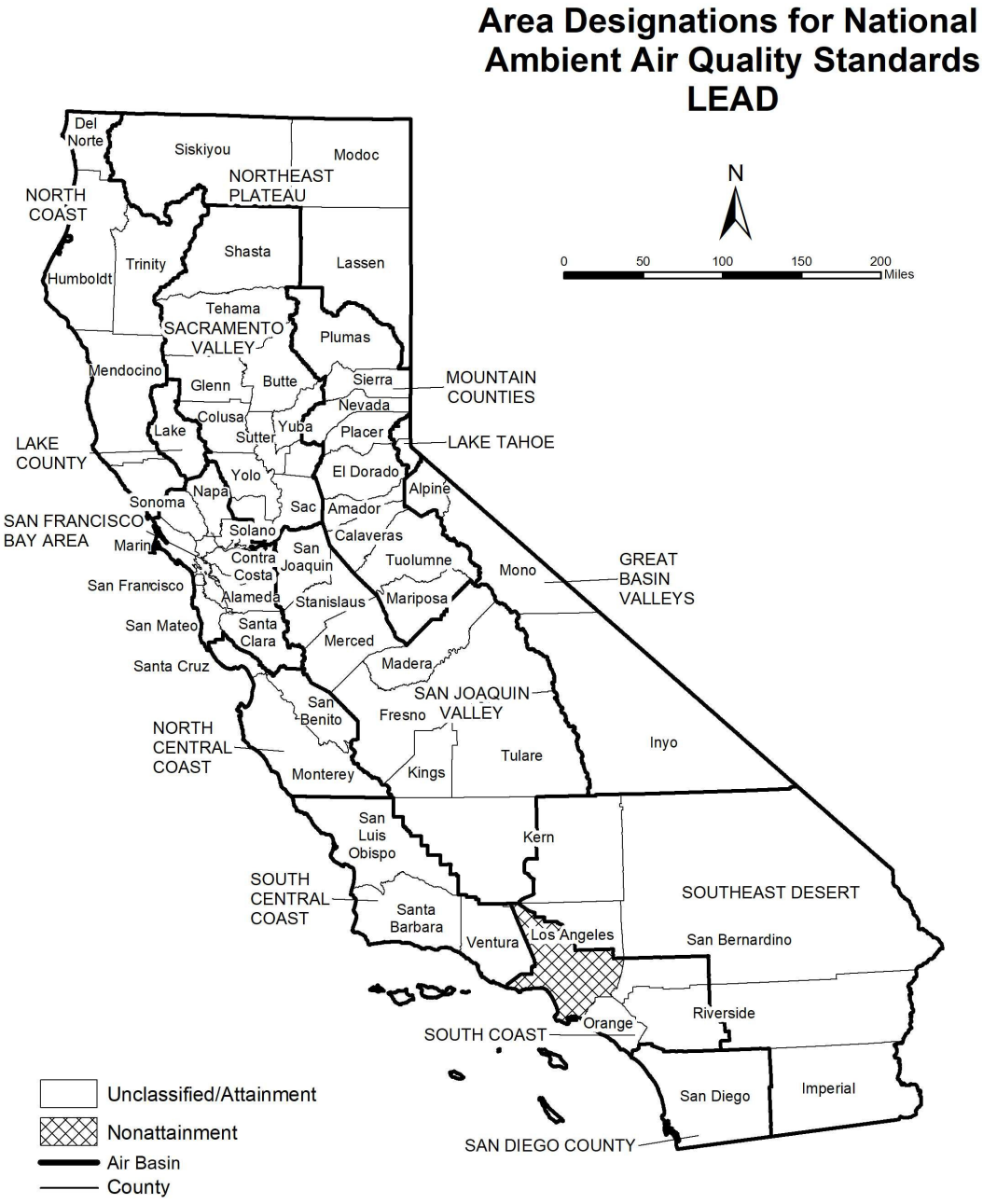
	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		X
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		
Fresno County		X
Kern County (portion)		X
Kings County		X
Madera County		X
Merced County		X
San Joaquin County		X
Stanislaus County		X
Tulare County		X

	N	U/A
SOUTH CENTRAL COAST AIR BASIN		
San Luis Obispo County		X
Santa Barbara County		X
Ventura County		X
Channel Islands[1]		X
SOUTH COAST AIR BASIN		X
SOUTHEAST DESERT AIR BASIN		
Imperial County		X
Remainder of Air Basin		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

[1] South Central Coast Air Basin Channel Islands:
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.
Ventura County includes Anacapa and San Nicolas Islands.
Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

FIGURE 17



Source Date:
August 2019
Air Quality Planning and Science Division

TABLE 17

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

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		X
LAKE COUNTY AIR BASIN		X
LAKE TAHOE AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X
SACRAMENTO VALLEY AIR BASIN		X

	N	U/A
SAN DIEGO COUNTY		X
SAN FRANCISCO BAY AREA AIR BASIN		X
SAN JOAQUIN VALLEY AIR BASIN		X
SOUTH CENTRAL COAST AIR BASIN		X
SOUTH COAST AIR BASIN		
Los Angeles County (portion)[1]	X	
Remainder of Air Basin		X
SOUTHEAST DESERT AIR BASIN		X

[1] Portion of County in Air Basin, not including Channel Islands

APPENDIX 5.1:

CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS

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14064 West Campus Upper Plateau Construction Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

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

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—
Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—

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

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.2	173	55.4	477	0.92	1.89	34.4	34.7	1.89	11.9	13.7	—	103,047	103,047	4.04	3.58	150	103,737
Mit.	12.2	33.4	55.4	477	0.92	1.89	34.4	34.7	1.89	11.9	13.7	—	103,047	103,047	4.04	3.58	150	103,737
% Reduced	—	81%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.6	173	55.9	474	0.92	1.89	34.4	34.7	1.89	11.9	13.7	—	102,920	102,920	4.05	3.63	3.89	103,584
Mit.	11.6	33.3	55.9	474	0.92	1.89	34.4	34.7	1.89	11.9	13.7	—	102,920	102,920	4.05	3.63	3.89	103,584

% Reduced	—	81%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.16	88.5	23.4	199	0.39	0.79	19.8	20.0	0.79	5.09	5.75	—	43,109	43,109	1.70	1.87	39.8	43,391
Mit.	7.16	12.6	23.4	199	0.39	0.79	19.8	20.0	0.79	5.09	5.75	—	43,109	43,109	1.70	1.87	39.8	43,391
% Reduced	—	86%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.31	16.1	4.27	36.3	0.07	0.14	3.61	3.65	0.14	0.93	1.05	—	7,137	7,137	0.28	0.31	6.59	7,184
Mit.	1.31	2.31	4.27	36.3	0.07	0.14	3.61	3.65	0.14	0.93	1.05	—	7,137	7,137	0.28	0.31	6.59	7,184
% Reduced	—	86%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	9.94	9.73	55.4	477	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	103,047	103,047	4.04	1.88	26.9	103,737
2024	11.8	10.7	26.5	209	0.39	0.80	27.9	28.2	0.80	6.66	6.94	—	43,503	43,503	1.74	2.62	139	44,464
2025	11.3	9.38	25.1	187	0.13	0.28	27.9	28.2	0.28	6.66	6.94	—	42,773	42,773	1.56	2.62	129	43,723
2026	12.2	169	31.2	211	0.17	0.37	34.4	34.7	0.37	8.24	8.61	—	52,568	52,568	1.90	3.58	150	53,833
2027	2.65	173	10.4	68.7	0.09	0.20	7.08	7.27	0.20	1.73	1.93	—	16,403	16,403	0.40	1.12	32.3	16,779
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	9.90	9.68	55.9	474	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	102,920	102,920	4.05	1.88	0.70	103,584

2024	11.2	10.1	55.4	474	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	102,805	102,805	4.05	2.63	3.62	103,469
2025	10.1	8.86	26.5	152	0.13	0.28	27.9	28.2	0.28	6.66	6.94	—	40,617	40,617	1.60	2.62	3.34	41,442
2026	11.6	168	33.0	171	0.17	0.37	34.4	34.7	0.37	8.24	8.61	—	50,047	50,047	1.02	3.63	3.89	51,158
2027	2.56	173	10.8	62.1	0.09	0.20	7.08	7.27	0.20	1.73	1.93	—	15,961	15,961	0.41	1.12	0.84	16,306
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.15	4.05	23.4	199	0.39	0.79	11.8	12.6	0.79	4.96	5.75	—	43,109	43,109	1.70	0.79	4.87	43,391
2024	6.59	6.09	22.8	167	0.24	0.50	17.0	17.5	0.50	5.09	5.59	—	37,984	37,984	1.50	1.41	26.4	38,466
2025	7.16	6.28	19.5	113	0.09	0.20	19.8	20.0	0.20	4.73	4.92	—	29,233	29,233	1.14	1.87	39.8	29,860
2026	6.00	52.6	17.0	92.3	0.08	0.18	17.5	17.7	0.18	4.20	4.38	—	25,719	25,719	0.52	1.78	32.8	26,295
2027	1.12	88.5	4.55	18.7	0.03	0.06	3.57	3.63	0.06	0.87	0.93	—	6,133	6,133	0.13	0.54	7.02	6,304
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.76	0.74	4.27	36.3	0.07	0.14	2.16	2.30	0.14	0.91	1.05	—	7,137	7,137	0.28	0.13	0.81	7,184
2024	1.20	1.11	4.16	30.4	0.04	0.09	3.10	3.19	0.09	0.93	1.02	—	6,289	6,289	0.25	0.23	4.37	6,369
2025	1.31	1.15	3.55	20.6	0.02	0.04	3.61	3.65	0.04	0.86	0.90	—	4,840	4,840	0.19	0.31	6.59	4,944
2026	1.10	9.60	3.11	16.8	0.02	0.03	3.20	3.23	0.03	0.77	0.80	—	4,258	4,258	0.09	0.29	5.43	4,353
2027	0.21	16.1	0.83	3.41	0.01	0.01	0.65	0.66	0.01	0.16	0.17	—	1,015	1,015	0.02	0.09	1.16	1,044

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	9.94	9.73	55.4	477	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	103,047	103,047	4.04	1.88	26.9	103,737
2024	11.8	10.7	26.5	209	0.39	0.80	27.9	28.2	0.80	6.66	6.94	—	43,503	43,503	1.74	2.62	139	44,464
2025	11.3	9.38	25.1	187	0.13	0.28	27.9	28.2	0.28	6.66	6.94	—	42,773	42,773	1.56	2.62	129	43,723
2026	12.2	29.6	31.2	211	0.17	0.37	34.4	34.7	0.37	8.24	8.61	—	52,568	52,568	1.90	3.58	150	53,833

2027	2.65	33.4	10.4	68.7	0.09	0.20	7.08	7.27	0.20	1.73	1.93	—	16,403	16,403	0.40	1.12	32.3	16,779
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	9.90	9.68	55.9	474	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	102,920	102,920	4.05	1.88	0.70	103,584
2024	11.2	10.1	55.4	474	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	102,805	102,805	4.05	2.63	3.62	103,469
2025	10.1	8.86	26.5	152	0.13	0.28	27.9	28.2	0.28	6.66	6.94	—	40,617	40,617	1.60	2.62	3.34	41,442
2026	11.6	29.0	33.0	171	0.17	0.37	34.4	34.7	0.37	8.24	8.61	—	50,047	50,047	1.02	3.63	3.89	51,158
2027	2.56	33.3	10.8	62.1	0.09	0.20	7.08	7.27	0.20	1.73	1.93	—	15,961	15,961	0.41	1.12	0.84	16,306
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.15	4.05	23.4	199	0.39	0.79	11.8	12.6	0.79	4.96	5.75	—	43,109	43,109	1.70	0.79	4.87	43,391
2024	6.59	6.09	22.8	167	0.24	0.50	17.0	17.5	0.50	5.09	5.59	—	37,984	37,984	1.50	1.41	26.4	38,466
2025	7.16	6.28	19.5	113	0.09	0.20	19.8	20.0	0.20	4.73	4.92	—	29,233	29,233	1.14	1.87	39.8	29,860
2026	6.00	10.9	17.0	92.3	0.08	0.18	17.5	17.7	0.18	4.20	4.38	—	25,719	25,719	0.52	1.78	32.8	26,295
2027	1.12	12.6	4.55	18.7	0.03	0.06	3.57	3.63	0.06	0.87	0.93	—	6,133	6,133	0.13	0.54	7.02	6,304
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.76	0.74	4.27	36.3	0.07	0.14	2.16	2.30	0.14	0.91	1.05	—	7,137	7,137	0.28	0.13	0.81	7,184
2024	1.20	1.11	4.16	30.4	0.04	0.09	3.10	3.19	0.09	0.93	1.02	—	6,289	6,289	0.25	0.23	4.37	6,369
2025	1.31	1.15	3.55	20.6	0.02	0.04	3.61	3.65	0.04	0.86	0.90	—	4,840	4,840	0.19	0.31	6.59	4,944
2026	1.10	1.99	3.11	16.8	0.02	0.03	3.20	3.23	0.03	0.77	0.80	—	4,258	4,258	0.09	0.29	5.43	4,353
2027	0.21	2.31	0.83	3.41	0.01	0.01	0.65	0.66	0.01	0.16	0.17	—	1,015	1,015	0.02	0.09	1.16	1,044

3. Construction Emissions Details

3.1. Grading (2023) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,824	74,824	3.04	0.61	—	75,081
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,824	74,824	3.04	0.61	—	75,081
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.96	2.96	15.4	154	0.29	0.59	—	0.59	0.59	—	0.59	—	31,335	31,335	1.27	0.25	—	31,443
Dust From Material Movement	—	—	—	—	—	—	8.27	8.27	—	3.50	3.50	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.54	0.54	2.81	28.1	0.05	0.11	—	0.11	0.11	—	0.11	—	5,188	5,188	0.21	0.04	—	5,206
Dust From Material Movement	—	—	—	—	—	—	1.51	1.51	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.44	0.44	7.48	0.00	0.00	0.07	0.07	0.00	0.00	0.00	—	1,212	1,212	0.05	0.04	5.20	1,231
Vendor	0.19	0.11	4.18	1.30	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,581	3,581	0.08	0.53	9.97	3,751
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.42	0.51	5.67	0.00	0.00	0.07	0.07	0.00	0.00	0.00	—	1,114	1,114	0.05	0.04	0.13	1,127
Vendor	0.18	0.10	4.38	1.34	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,583	3,583	0.08	0.53	0.26	3,744
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.49	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	472	472	0.02	0.02	0.94	479
Vendor	0.08	0.04	1.84	0.55	0.01	0.02	0.09	0.11	0.02	0.03	0.05	—	1,500	1,500	0.03	0.22	1.81	1,569
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.45	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	78.2	78.2	< 0.005	< 0.005	0.16	79.3
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	248	248	0.01	0.04	0.30	260
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Grading (2023) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,824	74,824	3.04	0.61	—	75,081
Dust From Material Movemen	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,824	74,824	3.04	0.61	—	75,081
Dust From Material Movemen	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.96	2.96	15.4	154	0.29	0.59	—	0.59	0.59	—	0.59	—	31,335	31,335	1.27	0.25	—	31,443
Dust From Material Movemen	—	—	—	—	—	—	8.27	8.27	—	3.50	3.50	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.54	2.81	28.1	0.05	0.11	—	0.11	0.11	—	0.11	—	5,188	5,188	0.21	0.04	—	5,206
Dust From Material Movement	—	—	—	—	—	—	1.51	1.51	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.44	0.44	7.48	0.00	0.00	0.07	0.07	0.00	0.00	0.00	—	1,212	1,212	0.05	0.04	5.20	1,231
Vendor	0.19	0.11	4.18	1.30	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,581	3,581	0.08	0.53	9.97	3,751
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.42	0.51	5.67	0.00	0.00	0.07	0.07	0.00	0.00	0.00	—	1,114	1,114	0.05	0.04	0.13	1,127
Vendor	0.18	0.10	4.38	1.34	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,583	3,583	0.08	0.53	0.26	3,744
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.49	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	472	472	0.02	0.02	0.94	479
Vendor	0.08	0.04	1.84	0.55	0.01	0.02	0.09	0.11	0.02	0.03	0.05	—	1,500	1,500	0.03	0.22	1.81	1,569
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.45	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	78.2	78.2	< 0.005	< 0.005	0.16	79.3
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	248	248	0.01	0.04	0.30	260

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

3.3. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,812	74,812	3.03	0.61	—	75,069
Dust From Material Movemen	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.90	4.68	46.8	0.09	0.18	—	0.18	0.18	—	0.18	—	9,516	9,516	0.39	0.08	—	9,549
Dust From Material Movemen	—	—	—	—	—	—	2.51	2.51	—	1.06	1.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	0.85	8.54	0.02	0.03	—	0.03	0.03	—	0.03	—	1,576	1,576	0.06	0.01	—	1,581

Dust From Material Movemen	—	—	—	—	—	—	0.46	0.46	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.40	0.47	5.21	0.00	0.00	0.07	0.07	0.00	0.00	0.00	—	1,091	1,091	0.05	0.04	0.12	1,105
Vendor	0.15	0.10	4.20	1.28	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,542	3,542	0.08	0.53	0.26	3,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	141	141	0.01	0.01	0.26	143
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	23.3	23.3	< 0.005	< 0.005	0.04	23.6
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	74.6	74.6	< 0.005	0.01	0.09	78.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2024) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,812	74,812	3.03	0.61	—	75,069
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.90	4.68	46.8	0.09	0.18	—	0.18	0.18	—	0.18	—	9,516	9,516	0.39	0.08	—	9,549
Dust From Material Movement	—	—	—	—	—	—	2.51	2.51	—	1.06	1.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	0.85	8.54	0.02	0.03	—	0.03	0.03	—	0.03	—	1,576	1,576	0.06	0.01	—	1,581
Dust From Material Movement	—	—	—	—	—	—	0.46	0.46	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.40	0.47	5.21	0.00	0.00	0.07	0.07	0.00	0.00	0.00	—	1,091	1,091	0.05	0.04	0.12	1,105
Vendor	0.15	0.10	4.20	1.28	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,542	3,542	0.08	0.53	0.26	3,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	141	141	0.01	0.01	0.26	143
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	23.3	23.3	< 0.005	< 0.005	0.04	23.6
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	74.6	74.6	< 0.005	0.01	0.09	78.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - Unmitigated

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

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

Dust From Material Movemen	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.85	9.61	96.1	0.18	0.37	—	0.37	0.37	—	0.37	—	19,446	19,446	0.79	0.16	—	19,512
Dust From Material Movemen	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.77	4.03	40.3	0.08	0.15	—	0.15	0.15	—	0.15	—	8,144	8,144	0.33	0.07	—	8,172
Dust From Material Movemen	—	—	—	—	—	—	2.14	2.14	—	1.10	1.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	0.73	7.35	0.01	0.03	—	0.03	0.03	—	0.03	—	1,348	1,348	0.05	0.01	—	1,353
Dust From Material Movemen	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.15	2.49	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	404	404	0.02	0.01	1.73	410
Vendor	0.19	0.11	4.18	1.30	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,581	3,581	0.08	0.53	9.97	3,751
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.17	1.89	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	371	371	0.02	0.01	0.04	376
Vendor	0.18	0.10	4.38	1.34	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,583	3,583	0.08	0.53	0.26	3,744
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.83	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	157	157	0.01	0.01	0.31	160
Vendor	0.08	0.04	1.84	0.55	0.01	0.02	0.09	0.11	0.02	0.03	0.05	—	1,500	1,500	0.03	0.22	1.81	1,569
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	26.1	26.1	< 0.005	< 0.005	0.05	26.4
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	248	248	0.01	0.04	0.30	260
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2023) - Mitigated

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

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

Off-Road Equipment	1.85	1.85	9.61	96.1	0.18	0.37	—	0.37	0.37	—	0.37	—	19,446	19,446	0.79	0.16	—	19,512
Dust From Material Movemen	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.85	9.61	96.1	0.18	0.37	—	0.37	0.37	—	0.37	—	19,446	19,446	0.79	0.16	—	19,512
Dust From Material Movemen	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.77	4.03	40.3	0.08	0.15	—	0.15	0.15	—	0.15	—	8,144	8,144	0.33	0.07	—	8,172
Dust From Material Movemen	—	—	—	—	—	—	2.14	2.14	—	1.10	1.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.14	0.73	7.35	0.01	0.03	—	0.03	0.03	—	0.03	—	1,348	1,348	0.05	0.01	—	1,353
Dust From Material Movemen	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.15	2.49	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	404	404	0.02	0.01	1.73	410
Vendor	0.19	0.11	4.18	1.30	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,581	3,581	0.08	0.53	9.97	3,751
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.17	1.89	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	371	371	0.02	0.01	0.04	376
Vendor	0.18	0.10	4.38	1.34	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,583	3,583	0.08	0.53	0.26	3,744
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.83	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	157	157	0.01	0.01	0.31	160
Vendor	0.08	0.04	1.84	0.55	0.01	0.02	0.09	0.11	0.02	0.03	0.05	—	1,500	1,500	0.03	0.22	1.81	1,569
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	26.1	26.1	< 0.005	< 0.005	0.05	26.4
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	248	248	0.01	0.04	0.30	260
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Grading (2024) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.85	9.61	96.1	0.18	0.37	—	0.37	0.37	—	0.37	—	19,454	19,454	0.79	0.16	—	19,521
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	1.22	12.2	0.02	0.05	—	0.05	0.05	—	0.05	—	2,475	2,475	0.10	0.02	—	2,483
Dust From Material Movement	—	—	—	—	—	—	0.65	0.65	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.22	2.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	410	410	0.02	< 0.005	—	411
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.16	1.74	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	364	364	0.02	0.01	0.04	368
Vendor	0.15	0.10	4.20	1.28	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,542	3,542	0.08	0.53	0.26	3,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	46.9	46.9	< 0.005	< 0.005	0.09	47.5
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.76	7.76	< 0.005	< 0.005	0.01	7.87
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	74.6	74.6	< 0.005	0.01	0.09	78.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Grading (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.85	9.61	96.1	0.18	0.37	—	0.37	0.37	—	0.37	—	19,454	19,454	0.79	0.16	—	19,521

Dust From Material Movemen	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	1.22	12.2	0.02	0.05	—	0.05	0.05	—	0.05	—	2,475	2,475	0.10	0.02	—	2,483
Dust From Material Movemen	—	—	—	—	—	—	0.65	0.65	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.22	2.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	410	410	0.02	< 0.005	—	411
Dust From Material Movemen	—	—	—	—	—	—	0.12	0.12	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.16	1.74	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	364	364	0.02	0.01	0.04	368
Vendor	0.15	0.10	4.20	1.28	0.03	0.05	0.21	0.26	0.05	0.08	0.13	—	3,542	3,542	0.08	0.53	0.26	3,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	46.9	46.9	< 0.005	< 0.005	0.09	47.5
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.76	7.76	< 0.005	< 0.005	0.01	7.87
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	74.6	74.6	< 0.005	0.01	0.09	78.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Grading (2024) - Unmitigated

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

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

Dust From Material Movemen	—	—	—	—	—	—	10.7	10.7	—	4.62	4.62	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.72	3.76	37.6	0.07	0.14	—	0.14	0.14	—	0.14	—	7,634	7,634	0.31	0.06	—	7,660
Dust From Material Movemen	—	—	—	—	—	—	1.97	1.97	—	0.85	0.85	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.69	6.85	0.01	0.03	—	0.03	0.03	—	0.03	—	1,264	1,264	0.05	0.01	—	1,268
Dust From Material Movemen	—	—	—	—	—	—	0.36	0.36	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.24	0.23	3.97	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	684	684	0.03	0.02	2.71	694
Vendor	0.05	0.03	1.34	0.42	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,180	1,180	0.03	0.18	3.32	1,236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.25	0.23	0.27	3.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	628	628	0.03	0.02	0.07	636
Vendor	0.05	0.03	1.40	0.43	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,181	1,181	0.03	0.18	0.09	1,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.58	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	117	117	0.01	< 0.005	0.22	118
Vendor	0.01	0.01	0.26	0.08	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	217	217	< 0.005	0.03	0.26	227
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	19.3	19.3	< 0.005	< 0.005	0.04	19.6
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	35.9	35.9	< 0.005	0.01	0.04	37.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Grading (2024) - Mitigated

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

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

Off-Road Equipment	3.93	3.93	20.5	205	0.38	0.79	—	0.79	0.79	—	0.79	—	41,586	41,586	1.69	0.34	—	41,729
Dust From Material Movement	—	—	—	—	—	—	10.7	10.7	—	4.62	4.62	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.72	3.76	37.6	0.07	0.14	—	0.14	0.14	—	0.14	—	7,634	7,634	0.31	0.06	—	7,660
Dust From Material Movement	—	—	—	—	—	—	1.97	1.97	—	0.85	0.85	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.69	6.85	0.01	0.03	—	0.03	0.03	—	0.03	—	1,264	1,264	0.05	0.01	—	1,268
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.24	0.23	3.97	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	684	684	0.03	0.02	2.71	694
Vendor	0.05	0.03	1.34	0.42	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,180	1,180	0.03	0.18	3.32	1,236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	0.27	3.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	—	628	628	0.03	0.02	0.07	636
Vendor	0.05	0.03	1.40	0.43	0.01	0.02	0.07	0.09	0.02	0.03	0.04	—	1,181	1,181	0.03	0.18	0.09	1,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.58	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	117	117	0.01	< 0.005	0.22	118
Vendor	0.01	0.01	0.26	0.08	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	—	217	217	< 0.005	0.03	0.26	227
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	19.3	19.3	< 0.005	< 0.005	0.04	19.6
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	35.9	35.9	< 0.005	0.01	0.04	37.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,199	5,199	0.21	0.04	—	5,216
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,199	5,199	0.21	0.04	—	5,216
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	2.01	15.0	0.02	0.05	—	0.05	0.05	—	0.05	—	2,116	2,116	0.09	0.02	—	2,123
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.37	2.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	350	350	0.01	< 0.005	—	352
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.7	9.75	9.18	159	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	27,376	27,376	1.15	0.94	109	27,794
Vendor	0.49	0.32	12.4	3.85	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,929	10,929	0.24	1.64	30.8	11,453
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.1	9.16	10.8	120	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	25,159	25,159	1.20	0.94	2.82	25,473
Vendor	0.47	0.31	13.0	3.94	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,936	10,936	0.24	1.65	0.80	11,433
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.11	3.71	4.40	51.4	0.00	0.00	0.63	0.63	0.00	0.00	0.00	—	10,372	10,372	0.49	0.38	19.1	10,517
Vendor	0.19	0.13	5.27	1.59	0.03	0.06	0.26	0.32	0.06	0.10	0.16	—	4,450	4,450	0.10	0.67	5.39	4,656

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.68	0.80	9.39	0.00	0.00	0.12	0.12	0.00	0.00	0.00	—	1,717	1,717	0.08	0.06	3.16	1,741
Vendor	0.04	0.02	0.96	0.29	0.01	0.01	0.05	0.06	0.01	0.02	0.03	—	737	737	0.02	0.11	0.89	771
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,199	5,199	0.21	0.04	—	5,216
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,199	5,199	0.21	0.04	—	5,216
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	2.01	15.0	0.02	0.05	—	0.05	0.05	—	0.05	—	2,116	2,116	0.09	0.02	—	2,123
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.05	0.05	0.37	2.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	350	350	0.01	< 0.005	—	352
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.7	9.75	9.18	159	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	27,376	27,376	1.15	0.94	109	27,794
Vendor	0.49	0.32	12.4	3.85	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,929	10,929	0.24	1.64	30.8	11,453
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.1	9.16	10.8	120	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	25,159	25,159	1.20	0.94	2.82	25,473
Vendor	0.47	0.31	13.0	3.94	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,936	10,936	0.24	1.65	0.80	11,433
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.11	3.71	4.40	51.4	0.00	0.00	0.63	0.63	0.00	0.00	0.00	—	10,372	10,372	0.49	0.38	19.1	10,517
Vendor	0.19	0.13	5.27	1.59	0.03	0.06	0.26	0.32	0.06	0.10	0.16	—	4,450	4,450	0.10	0.67	5.39	4,656
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.68	0.80	9.39	0.00	0.00	0.12	0.12	0.00	0.00	0.00	—	1,717	1,717	0.08	0.06	3.16	1,741
Vendor	0.04	0.02	0.96	0.29	0.01	0.01	0.05	0.06	0.01	0.02	0.03	—	737	737	0.02	0.11	0.89	771
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2025) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,198	5,198	0.21	0.04	—	5,216
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,198	5,198	0.21	0.04	—	5,216
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.45	3.53	26.3	0.04	0.09	—	0.09	0.09	—	0.09	—	3,713	3,713	0.15	0.03	—	3,725
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.64	4.79	0.01	0.02	—	0.02	0.02	—	0.02	—	615	615	0.02	< 0.005	—	617
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.2	8.51	8.32	147	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	26,806	26,806	1.11	0.94	98.5	27,214
Vendor	0.49	0.23	11.8	3.68	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,769	10,769	0.24	1.64	30.6	11,294
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.99	8.01	9.18	111	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	24,643	24,643	1.15	0.94	2.55	24,955
Vendor	0.47	0.22	12.4	3.78	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,777	10,777	0.24	1.64	0.79	11,271
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.36	5.66	7.11	83.8	0.00	0.00	1.11	1.11	0.00	0.00	0.00	—	17,826	17,826	0.82	0.67	30.3	18,078
Vendor	0.34	0.17	8.83	2.66	0.06	0.11	0.45	0.57	0.11	0.17	0.28	—	7,695	7,695	0.17	1.17	9.46	8,057
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.16	1.03	1.30	15.3	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	2,951	2,951	0.14	0.11	5.02	2,993
Vendor	0.06	0.03	1.61	0.49	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,274	1,274	0.03	0.19	1.57	1,334
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,198	5,198	0.21	0.04	—	5,216
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,198	5,198	0.21	0.04	—	5,216
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.45	3.53	26.3	0.04	0.09	—	0.09	0.09	—	0.09	—	3,713	3,713	0.15	0.03	—	3,725
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.64	4.79	0.01	0.02	—	0.02	0.02	—	0.02	—	615	615	0.02	< 0.005	—	617
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.2	8.51	8.32	147	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	26,806	26,806	1.11	0.94	98.5	27,214
Vendor	0.49	0.23	11.8	3.68	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,769	10,769	0.24	1.64	30.6	11,294
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.99	8.01	9.18	111	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	24,643	24,643	1.15	0.94	2.55	24,955
Vendor	0.47	0.22	12.4	3.78	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,777	10,777	0.24	1.64	0.79	11,271
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.36	5.66	7.11	83.8	0.00	0.00	1.11	1.11	0.00	0.00	0.00	—	17,826	17,826	0.82	0.67	30.3	18,078
Vendor	0.34	0.17	8.83	2.66	0.06	0.11	0.45	0.57	0.11	0.17	0.28	—	7,695	7,695	0.17	1.17	9.46	8,057

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.16	1.03	1.30	15.3	0.00	0.00	0.20	0.20	0.00	0.00	0.00	—	2,951	2,951	0.14	0.11	5.02	2,993
Vendor	0.06	0.03	1.61	0.49	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,274	1,274	0.03	0.19	1.57	1,334
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,198	5,198	0.21	0.04	—	5,215
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,198	5,198	0.21	0.04	—	5,215
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.35	2.78	20.7	0.03	0.07	—	0.07	0.07	—	0.07	—	2,929	2,929	0.12	0.02	—	2,939
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.06	0.51	3.78	0.01	0.01	—	0.01	0.01	—	0.01	—	485	485	0.02	< 0.005	—	487
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.95	8.05	7.46	137	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	26,231	26,231	1.11	0.90	88.9	26,616
Vendor	0.49	0.23	11.3	3.51	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,596	10,596	0.24	1.64	29.0	11,119
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.53	7.59	8.32	104	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	24,120	24,120	0.38	0.94	2.31	24,412
Vendor	0.47	0.21	11.8	3.60	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,604	10,604	0.24	1.64	0.75	11,098
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.79	4.25	5.13	61.1	0.00	0.00	0.87	0.87	0.00	0.00	0.00	—	13,766	13,766	0.21	0.53	21.6	13,952
Vendor	0.27	0.12	6.68	2.00	0.04	0.09	0.36	0.45	0.09	0.13	0.22	—	5,974	5,974	0.13	0.92	7.02	6,259
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.87	0.78	0.94	11.1	0.00	0.00	0.16	0.16	0.00	0.00	0.00	—	2,279	2,279	0.04	0.09	3.58	2,310
Vendor	0.05	0.02	1.22	0.37	0.01	0.02	0.07	0.08	0.02	0.02	0.04	—	989	989	0.02	0.15	1.16	1,036
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction (2026) - Mitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,198	5,198	0.21	0.04	—	5,215
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.05	0.12	—	0.12	0.12	—	0.12	—	5,198	5,198	0.21	0.04	—	5,215
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.35	2.78	20.7	0.03	0.07	—	0.07	0.07	—	0.07	—	2,929	2,929	0.12	0.02	—	2,939
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.51	3.78	0.01	0.01	—	0.01	0.01	—	0.01	—	485	485	0.02	< 0.005	—	487
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.95	8.05	7.46	137	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	26,231	26,231	1.11	0.90	88.9	26,616
Vendor	0.49	0.23	11.3	3.51	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,596	10,596	0.24	1.64	29.0	11,119
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.53	7.59	8.32	104	0.00	0.00	1.55	1.55	0.00	0.00	0.00	—	24,120	24,120	0.38	0.94	2.31	24,412
Vendor	0.47	0.21	11.8	3.60	0.08	0.16	0.63	0.79	0.16	0.24	0.40	—	10,604	10,604	0.24	1.64	0.75	11,098
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.79	4.25	5.13	61.1	0.00	0.00	0.87	0.87	0.00	0.00	0.00	—	13,766	13,766	0.21	0.53	21.6	13,952
Vendor	0.27	0.12	6.68	2.00	0.04	0.09	0.36	0.45	0.09	0.13	0.22	—	5,974	5,974	0.13	0.92	7.02	6,259
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.87	0.78	0.94	11.1	0.00	0.00	0.16	0.16	0.00	0.00	0.00	—	2,279	2,279	0.04	0.09	3.58	2,310
Vendor	0.05	0.02	1.22	0.37	0.01	0.02	0.07	0.08	0.02	0.02	0.04	—	989	989	0.02	0.15	1.16	1,036
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Paving (2027) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	2.43	34.6	0.05	0.09	—	0.09	0.09	—	0.09	—	4,937	4,937	0.20	0.04	—	4,954
Paving	—	12.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.28	3.98	0.01	0.01	—	0.01	0.01	—	0.01	—	568	568	0.02	< 0.005	—	570
Paving	—	1.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	94.1	94.1	< 0.005	< 0.005	—	94.4
Paving	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.10	1.99	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	406	406	< 0.005	0.01	1.26	412
Vendor	0.03	0.01	0.74	0.23	0.01	0.01	0.04	0.05	0.01	0.02	0.03	—	709	709	0.02	0.11	1.81	743
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.12	1.51	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	373	373	0.01	0.01	0.03	378

Vendor	0.03	0.01	0.78	0.24	0.01	0.01	0.04	0.05	0.01	0.02	0.03	—	710	710	0.02	0.11	0.05	742
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	43.5	43.5	< 0.005	< 0.005	0.06	44.1
Vendor	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	81.6	81.6	< 0.005	0.01	0.09	85.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.20	7.20	< 0.005	< 0.005	0.01	7.30
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Paving (2027) - Mitigated

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

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

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.28	3.98	0.01	0.01	—	0.01	0.01	—	0.01	—	568	568	0.02	< 0.005	—	570
Paving	—	1.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	94.1	94.1	< 0.005	< 0.005	—	94.4
Paving	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.10	1.99	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	406	406	< 0.005	0.01	1.26	412
Vendor	0.03	0.01	0.74	0.23	0.01	0.01	0.04	0.05	0.01	0.02	0.03	—	709	709	0.02	0.11	1.81	743
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.12	1.51	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	373	373	0.01	0.01	0.03	378
Vendor	0.03	0.01	0.78	0.24	0.01	0.01	0.04	0.05	0.01	0.02	0.03	—	710	710	0.02	0.11	0.05	742
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	43.5	43.5	< 0.005	< 0.005	0.06	44.1
Vendor	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	81.6	81.6	< 0.005	0.01	0.09	85.4

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	7.20	7.20	< 0.005	< 0.005	0.01	7.30
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.34	4.89	—	0.01	—	0.01	0.01	—	0.01	—	—	—	—	—	—	—
Architectural Coatings	—	158	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.34	4.89	—	0.01	—	0.01	0.01	—	0.01	—	—	—	—	—	—	—
Architectural Coatings	—	158	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.10	1.46	—	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	—	—	—	—	—
Architectural Coatings	—	47.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.27	—	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	—	—	—	—	—
Architectural Coatings	—	8.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.79	1.61	1.49	27.3	0.00	0.00	0.31	0.31	0.00	0.00	0.00	—	5,246	5,246	0.22	0.18	17.8	5,323
Vendor	0.24	0.11	5.66	1.75	0.04	0.08	0.32	0.40	0.08	0.12	0.20	—	5,298	5,298	0.12	0.82	14.5	5,559
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.71	1.52	1.66	20.7	0.00	0.00	0.31	0.31	0.00	0.00	0.00	—	4,824	4,824	0.08	0.19	0.46	4,882
Vendor	0.24	0.11	5.90	1.80	0.04	0.08	0.32	0.40	0.08	0.12	0.20	—	5,302	5,302	0.12	0.82	0.38	5,549
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.45	0.54	6.49	0.00	0.00	0.09	0.09	0.00	0.00	0.00	—	1,463	1,463	0.02	0.06	2.30	1,482
Vendor	0.07	0.03	1.78	0.53	0.01	0.02	0.09	0.12	0.02	0.04	0.06	—	1,587	1,587	0.04	0.25	1.86	1,663

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.18	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	242	242	< 0.005	0.01	0.38	245
Vendor	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	263	263	0.01	0.04	0.31	275
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Architectural Coating (2026) - Mitigated

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

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

Off-Road Equipment	0.02	0.02	0.10	1.46	—	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	—	—	—	—	—
Architectural Coatings	—	5.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.27	—	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	—	—	—	—	—
Architectural Coatings	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.79	1.61	1.49	27.3	0.00	0.00	0.31	0.31	0.00	0.00	0.00	—	5,246	5,246	0.22	0.18	17.8	5,323
Vendor	0.24	0.11	5.66	1.75	0.04	0.08	0.32	0.40	0.08	0.12	0.20	—	5,298	5,298	0.12	0.82	14.5	5,559
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.71	1.52	1.66	20.7	0.00	0.00	0.31	0.31	0.00	0.00	0.00	—	4,824	4,824	0.08	0.19	0.46	4,882
Vendor	0.24	0.11	5.90	1.80	0.04	0.08	0.32	0.40	0.08	0.12	0.20	—	5,302	5,302	0.12	0.82	0.38	5,549
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.45	0.54	6.49	0.00	0.00	0.09	0.09	0.00	0.00	0.00	—	1,463	1,463	0.02	0.06	2.30	1,482
Vendor	0.07	0.03	1.78	0.53	0.01	0.02	0.09	0.12	0.02	0.04	0.06	—	1,587	1,587	0.04	0.25	1.86	1,663

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.18	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	242	242	< 0.005	0.01	0.38	245
Vendor	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	263	263	0.01	0.04	0.31	275
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.34	4.89	—	0.01	—	0.01	0.01	—	0.01	—	—	—	—	—	—	—
Architectural Coatings	—	158	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.34	4.89	—	0.01	—	0.01	0.01	—	0.01	—	—	—	—	—	—	—
Architectural Coatings	—	158	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.04	0.19	2.66	—	0.01	—	0.01	0.01	—	0.01	—	—	—	—	—	—	—
Architectural Coatings	—	86.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.49	—	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	—	—	—	—	—
Architectural Coatings	—	15.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.72	1.53	1.32	25.3	0.00	0.00	0.31	0.31	0.00	0.00	0.00	—	5,149	5,149	0.06	0.18	16.0	5,220
Vendor	0.24	0.11	5.44	1.71	0.04	0.08	0.32	0.40	0.08	0.12	0.20	—	5,201	5,201	0.12	0.78	13.2	5,450
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.63	1.44	1.49	19.1	0.00	0.00	0.31	0.31	0.00	0.00	0.00	—	4,736	4,736	0.07	0.18	0.41	4,791
Vendor	0.23	0.10	5.68	1.76	0.04	0.08	0.32	0.40	0.08	0.12	0.20	—	5,205	5,205	0.12	0.78	0.34	5,440
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.78	0.90	10.9	0.00	0.00	0.17	0.17	0.00	0.00	0.00	—	2,609	2,609	0.04	0.10	3.75	2,643
Vendor	0.13	0.06	3.09	0.94	0.02	0.04	0.17	0.22	0.04	0.06	0.11	—	2,830	2,830	0.07	0.42	3.11	2,962

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.16	1.99	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	432	432	0.01	0.02	0.62	438
Vendor	0.02	0.01	0.56	0.17	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	469	469	0.01	0.07	0.51	490
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Architectural Coating (2027) - Mitigated

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

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

Off-Road Equipment	0.04	0.04	0.19	2.66	—	0.01	—	0.01	0.01	—	0.01	—	—	—	—	—	—	—
Architectural Coatings	—	10.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.49	—	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	—	—	—	—	—	—
Architectural Coatings	—	1.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.72	1.53	1.32	25.3	0.00	0.00	0.31	0.31	0.00	0.00	0.00	—	5,149	5,149	0.06	0.18	16.0	5,220
Vendor	0.24	0.11	5.44	1.71	0.04	0.08	0.32	0.40	0.08	0.12	0.20	—	5,201	5,201	0.12	0.78	13.2	5,450
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.63	1.44	1.49	19.1	0.00	0.00	0.31	0.31	0.00	0.00	0.00	—	4,736	4,736	0.07	0.18	0.41	4,791
Vendor	0.23	0.10	5.68	1.76	0.04	0.08	0.32	0.40	0.08	0.12	0.20	—	5,205	5,205	0.12	0.78	0.34	5,440
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.78	0.90	10.9	0.00	0.00	0.17	0.17	0.00	0.00	0.00	—	2,609	2,609	0.04	0.10	3.75	2,643
Vendor	0.13	0.06	3.09	0.94	0.02	0.04	0.17	0.22	0.04	0.06	0.11	—	2,830	2,830	0.07	0.42	3.11	2,962

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.16	1.99	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	432	432	0.01	0.02	0.62	438
Vendor	0.02	0.01	0.56	0.17	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	469	469	0.01	0.07	0.51	490
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description

Ph1 Mass Grading	Grading	6/1/2023	3/5/2024	5.00	199	—
Ph1 Blasting	Grading	6/1/2023	3/5/2024	5.00	199	—
Ph2 Remedial Grading	Grading	3/6/2024	6/6/2024	5.00	67.0	—
Ph2 Building Construction	Building Construction	6/7/2024	10/15/2026	5.00	615	—
Ph2 Paving	Paving	8/9/2027	10/5/2027	5.00	42.0	—
Ph2 Architectural Coating	Architectural Coating	8/1/2026	10/5/2027	5.00	307	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Ph1 Mass Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	8.00	8.00	670	0.40
Ph1 Mass Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	425	0.37
Ph1 Blasting	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	670	0.40
Ph1 Blasting	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	400	0.37
Ph2 Remedial Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	425	0.37
Ph2 Architectural Coating	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	78.0	0.48
Ph1 Mass Grading	Excavators	Diesel	Tier 4 Final	4.00	8.00	400	0.38
Ph1 Mass Grading	Scrapers	Diesel	Tier 4 Final	16.0	8.00	570	0.48
Ph2 Remedial Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	400	0.38
Ph2 Remedial Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	4.00	8.00	670	0.40
Ph2 Remedial Grading	Scrapers	Diesel	Tier 4 Final	8.00	8.00	570	0.48
Ph2 Building Construction	Cranes	Diesel	Tier 4 Final	2.00	8.00	231	0.29
Ph2 Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	89.0	0.20

Ph2 Building Construction	Generator Sets	Diesel	Tier 4 Final	2.00	8.00	84.0	0.74
Ph2 Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Ph2 Paving	Pavers	Diesel	Tier 4 Final	4.00	8.00	130	0.42
Ph2 Paving	Paving Equipment	Diesel	Tier 4 Final	4.00	8.00	132	0.36
Ph2 Paving	Rollers	Diesel	Tier 4 Final	4.00	8.00	80.0	0.38
Ph1 Mass Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	425	0.40
Ph1 Mass Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	500	0.38
Ph1 Blasting	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	425	0.38
Ph1 Blasting	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	600	0.40
Ph1 Blasting	Bore/Drill Rigs	Diesel	Tier 4 Final	3.00	8.00	360	0.50
Ph2 Remedial Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	425	0.40
Ph2 Remedial Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	500	0.38
Ph2 Building Construction	Crawler Tractors	Diesel	Tier 4 Final	3.00	8.00	212	0.43

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Ph1 Mass Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	8.00	8.00	670	0.40
Ph1 Mass Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	425	0.37
Ph1 Blasting	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	670	0.40
Ph1 Blasting	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	400	0.37
Ph2 Remedial Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	425	0.37
Ph2 Architectural Coating	Air Compressors	Diesel	Tier 4 Final	2.00	8.00	78.0	0.48
Ph1 Mass Grading	Excavators	Diesel	Tier 4 Final	4.00	8.00	400	0.38

Ph1 Mass Grading	Scrapers	Diesel	Tier 4 Final	16.0	8.00	570	0.48
Ph2 Remedial Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	400	0.38
Ph2 Remedial Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	4.00	8.00	670	0.40
Ph2 Remedial Grading	Scrapers	Diesel	Tier 4 Final	8.00	8.00	570	0.48
Ph2 Building Construction	Cranes	Diesel	Tier 4 Final	2.00	8.00	231	0.29
Ph2 Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	89.0	0.20
Ph2 Building Construction	Generator Sets	Diesel	Tier 4 Final	2.00	8.00	84.0	0.74
Ph2 Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Ph2 Paving	Pavers	Diesel	Tier 4 Final	4.00	8.00	130	0.42
Ph2 Paving	Paving Equipment	Diesel	Tier 4 Final	4.00	8.00	132	0.36
Ph2 Paving	Rollers	Diesel	Tier 4 Final	4.00	8.00	80.0	0.38
Ph1 Mass Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	425	0.40
Ph1 Mass Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	500	0.38
Ph1 Blasting	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	425	0.38
Ph1 Blasting	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	600	0.40
Ph1 Blasting	Bore/Drill Rigs	Diesel	Tier 4 Final	3.00	8.00	360	0.50
Ph2 Remedial Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	425	0.40
Ph2 Remedial Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	500	0.38
Ph2 Building Construction	Crawler Tractors	Diesel	Tier 4 Final	3.00	8.00	212	0.43

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Ph1 Mass Grading	—	—	—	—
Ph1 Mass Grading	Worker	82.5	18.5	LDA,LDT1,LDT2
Ph1 Mass Grading	Vendor	114	10.2	HHDT,MHDT
Ph1 Mass Grading	Hauling	0.00	20.0	HHDT
Ph1 Mass Grading	Onsite truck	—	—	HHDT
Ph1 Blasting	—	—	—	—
Ph1 Blasting	Worker	27.5	18.5	LDA,LDT1,LDT2
Ph1 Blasting	Vendor	114	10.2	HHDT,MHDT
Ph1 Blasting	Hauling	0.00	20.0	HHDT
Ph1 Blasting	Onsite truck	—	—	HHDT
Ph2 Remedial Grading	—	—	—	—
Ph2 Remedial Grading	Worker	47.5	18.5	LDA,LDT1,LDT2
Ph2 Remedial Grading	Vendor	38.0	10.2	HHDT,MHDT
Ph2 Remedial Grading	Hauling	0.00	20.0	HHDT
Ph2 Remedial Grading	Onsite truck	—	—	HHDT
Ph2 Building Construction	—	—	—	—
Ph2 Building Construction	Worker	1,902	18.5	LDA,LDT1,LDT2
Ph2 Building Construction	Vendor	352	10.2	HHDT,MHDT
Ph2 Building Construction	Hauling	0.00	20.0	HHDT
Ph2 Building Construction	Onsite truck	—	—	HHDT
Ph2 Architectural Coating	—	—	—	—
Ph2 Architectural Coating	Worker	380	18.5	LDA,LDT1,LDT2
Ph2 Architectural Coating	Vendor	176	10.2	HHDT,MHDT
Ph2 Architectural Coating	Hauling	0.00	20.0	HHDT
Ph2 Architectural Coating	Onsite truck	—	—	HHDT
Ph2 Paving	—	—	—	—
Ph2 Paving	Worker	30.0	18.5	LDA,LDT1,LDT2

Ph2 Paving	Vendor	24.0	10.2	HHDT,MHDT
Ph2 Paving	Hauling	0.00	20.0	HHDT
Ph2 Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

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

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

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

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

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Ph1 Mass Grading	—	—	3,980	0.00	—
Ph1 Blasting	—	—	3,980	0.00	—
Ph2 Remedial Grading	—	—	3,980	0.00	—
Ph2 Paving	0.00	0.00	0.00	0.00	195

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

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

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

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

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

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

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	97.6
AQ-PM	59.8
AQ-DPM	40.3

Drinking Water	70.7
Lead Risk Housing	53.6
Pesticides	13.2
Toxic Releases	64.0
Traffic	82.0
Effect Indicators	—
CleanUp Sites	82.5
Groundwater	97.9
Haz Waste Facilities/Generators	87.9
Impaired Water Bodies	0.00
Solid Waste	84.9
Sensitive Population	—
Asthma	71.5
Cardio-vascular	86.8
Low Birth Weights	97.0
Socioeconomic Factor Indicators	—
Education	82.5
Housing	59.7
Linguistic	82.8
Poverty	89.3
Unemployment	81.0

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	8.353650712

Employed	6.480174516
Median HI	22.3662261
Education	—
Bachelor's or higher	30.14243552
High school enrollment	100
Preschool enrollment	10.97138458
Transportation	—
Auto Access	10.29128705
Active commuting	87.46310792
Social	—
2-parent households	6.223533941
Voting	6.13370974
Neighborhood	—
Alcohol availability	44.43731554
Park access	43.37225715
Retail density	18.60644168
Supermarket access	67.43231105
Tree canopy	3.977928911
Housing	—
Homeownership	8.353650712
Housing habitability	10.4452714
Low-inc homeowner severe housing cost burden	45.06608495
Low-inc renter severe housing cost burden	46.23379956
Uncrowded housing	21.62196843
Health Outcomes	—
Insured adults	12.4085718
Arthritis	51.7

Asthma ER Admissions	24.0
High Blood Pressure	30.0
Cancer (excluding skin)	80.0
Asthma	9.8
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	27.0
Diagnosed Diabetes	31.9
Life Expectancy at Birth	7.4
Cognitively Disabled	15.9
Physically Disabled	19.5
Heart Attack ER Admissions	20.1
Mental Health Not Good	14.9
Chronic Kidney Disease	35.4
Obesity	8.3
Pedestrian Injuries	77.2
Physical Health Not Good	20.0
Stroke	29.9
Health Risk Behaviors	—
Binge Drinking	63.5
Current Smoker	15.5
No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	18.1
Elderly	24.3
English Speaking	44.9

Foreign-born	53.3
Outdoor Workers	18.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	73.9
Traffic Density	76.9
Traffic Access	61.5
Other Indices	—
Hardship	89.9
Other Decision Support	—
2016 Voting	11.6

7.3. Overall Health & Equity Scores

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Project site plan
Construction: Construction Phases	Construction schedule based on data provided by the Project team
Construction: Off-Road Equipment	Construction equipment based on data provided by the Project team
Construction: Dust From Material Movement	Total acres grading based on equipment list
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for each phase.

APPENDIX 5.2:

BLASTING EMISSIONS CALCULATIONS

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BLASTING PM10 and PM2.5

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

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

A (day) =	**40,000**	
E =	58.24	lbs PM10/day without watering
E =	12.23	lbs PM2.5/day without watering
CE =	50.00%	pre-wetting blasting areas and stabalizing soils once blasting is complete (Source:Western regional Air Partnership)
E (PM10) =	**29.12**	**lbs of PM10/day with watering**
E (PM2.5) =	**6.115**	**lbs of PM2.5/day with watering**

BLASTING NOX, SOX, and CO

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

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

E (CO) =	**62.81**	**lbs of CO released per year**
E (NOX) =	**15.94**	**lbs of NOX released per year**
E (SOX)=	**1.88**	**lbs of SOX released per year**
E (CO) =	**0.84**	**lbs of CO released per day**
E (NOX) =	**0.21**	**lbs of NOX released per day**
E (SOX) =	**0.03**	**lbs of SOX released per day**

BLASTING CO2

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

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

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

APPENDIX 5.3:

CALEEMOD OPERATIONS EMISSIONS MODEL OUTPUTS

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14064 West Campus Upper Plateau Ops Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

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

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—
Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—

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

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	234	332	310	2,364	6.91	5.96	227	233	5.74	40.9	46.7	4,510	760,082	764,592	480	47.6	2,408	793,176
Mit.	234	332	310	2,364	6.91	5.96	227	233	5.74	40.9	46.7	4,510	745,571	750,080	479	47.4	2,408	778,580
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	2%	2%	< 0.5%	< 0.5%	—	2%

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	187	288	328	1,762	6.52	5.67	227	233	5.35	40.9	46.3	4,510	721,637	726,147	480	48.3	562	753,104
Mit.	187	288	328	1,762	6.52	5.67	227	233	5.35	40.9	46.3	4,510	707,126	711,635	479	48.1	562	738,508
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	2%	2%	< 0.5%	< 0.5%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	151	257	231	1,386	4.51	4.11	154	158	3.96	27.9	31.8	4,510	513,465	517,974	474	35.5	1,069	541,466
Mit.	151	257	231	1,386	4.51	4.11	154	158	3.96	27.9	31.8	4,510	498,953	503,463	473	35.3	1,069	526,870
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.6	46.9	42.2	253	0.82	0.75	28.2	28.9	0.72	5.08	5.81	747	85,010	85,757	78.5	5.87	177	89,646
Mit.	27.6	46.9	42.2	253	0.82	0.75	28.2	28.9	0.72	5.08	5.81	747	82,607	83,354	78.2	5.85	177	87,229
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	3%	3%	< 0.5%	< 0.5%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	196	174	308	2,148	6.90	5.67	227	233	5.35	40.9	46.3	—	709,893	709,893	19.4	42.1	1,895	724,817
Area	38.6	158	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	42,414	42,414	4.04	0.49	—	42,662
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418

Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	234	332	310	2,364	6.91	5.96	227	233	5.74	40.9	46.7	4,510	760,082	764,592	480	47.6	2,408	793,176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	187	166	328	1,762	6.52	5.67	227	233	5.35	40.9	46.3	—	672,340	672,340	19.8	42.9	49.1	685,663
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	42,414	42,414	4.04	0.49	—	42,662
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	187	288	328	1,762	6.52	5.67	227	233	5.35	40.9	46.3	4,510	721,637	726,147	480	48.3	562	753,104
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	125	110	230	1,237	4.50	3.91	154	158	3.70	27.9	31.6	—	463,557	463,557	13.4	30.0	556	473,397
Area	26.4	147	1.25	149	0.01	0.20	—	0.20	0.26	—	0.26	—	611	611	0.03	0.06	—	629
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	42,414	42,414	4.04	0.49	—	42,662
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	151	257	231	1,386	4.51	4.11	154	158	3.96	27.9	31.8	4,510	513,465	517,974	474	35.5	1,069	541,466
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.8	20.1	42.0	226	0.82	0.71	28.2	28.9	0.67	5.08	5.76	—	76,747	76,747	2.21	4.97	92.1	78,376
Area	4.83	26.8	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,022	7,022	0.67	0.08	—	7,063
Water	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9

Total	27.6	46.9	42.2	253	0.82	0.75	28.2	28.9	0.72	5.08	5.81	747	85,010	85,757	78.5	5.87	177	89,646

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	196	174	308	2,148	6.90	5.67	227	233	5.35	40.9	46.3	—	709,893	709,893	19.4	42.1	1,895	724,817
Area	38.6	158	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	27,903	27,903	2.66	0.32	—	28,065
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	234	332	310	2,364	6.91	5.96	227	233	5.74	40.9	46.7	4,510	745,571	750,080	479	47.4	2,408	778,580
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	187	166	328	1,762	6.52	5.67	227	233	5.35	40.9	46.3	—	672,340	672,340	19.8	42.9	49.1	685,663
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	27,903	27,903	2.66	0.32	—	28,065
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	187	288	328	1,762	6.52	5.67	227	233	5.35	40.9	46.3	4,510	707,126	711,635	479	48.1	562	738,508
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	125	110	230	1,237	4.50	3.91	154	158	3.70	27.9	31.6	—	463,557	463,557	13.4	30.0	556	473,397
Area	26.4	147	1.25	149	0.01	0.20	—	0.20	0.26	—	0.26	—	611	611	0.03	0.06	—	629

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	27,903	27,903	2.66	0.32	—	28,065
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	151	257	231	1,386	4.51	4.11	154	158	3.96	27.9	31.8	4,510	498,953	503,463	473	35.3	1,069	526,870
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.8	20.1	42.0	226	0.82	0.71	28.2	28.9	0.67	5.08	5.76	—	76,747	76,747	2.21	4.97	92.1	78,376
Area	4.83	26.8	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,620	4,620	0.44	0.05	—	4,647
Water	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9
Total	27.6	46.9	42.2	253	0.82	0.75	28.2	28.9	0.72	5.08	5.81	747	82,607	83,354	78.2	5.85	177	87,229

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	87.6	78.8	50.0	1,128	2.68	1.04	13.3	14.4	0.96	3.98	4.94	—	271,472	271,472	7.63	5.52	731	274,037
Regional Shopping Center	47.8	44.2	36.2	342	0.89	0.62	5.14	5.76	0.58	1.59	2.17	—	90,520	90,520	3.61	4.02	259	92,068

Unrefrige Warehouse-No Rail	19.4	17.5	11.1	250	0.60	0.23	2.96	3.19	0.21	0.88	1.10	—	60,220	60,220	1.69	1.22	162	60,789
Refrigerated Warehouse-No Rail	2.97	2.67	1.69	38.3	0.09	0.04	0.45	0.49	0.03	0.14	0.17	—	9,210	9,210	0.26	0.19	24.8	9,297
City Park	30.6	27.1	34.1	340	0.96	0.65	5.66	6.31	0.61	1.75	2.36	—	98,353	98,353	3.07	3.94	285	99,889
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4.80	2.52	115	31.6	1.10	2.03	9.32	11.4	1.94	3.00	4.94	—	118,328	118,328	2.04	17.9	285	123,991
User Defined Commercial	2.51	1.32	60.1	16.5	0.58	1.06	4.87	5.93	1.02	1.57	2.58	—	61,790	61,790	1.06	9.33	149	64,747
Total	196	174	308	2,148	6.90	5.67	41.7	47.4	5.35	12.9	18.3	—	709,893	709,893	19.4	42.1	1,895	724,817
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	84.4	75.6	55.5	912	2.48	1.04	13.3	14.4	0.96	3.98	4.94	—	250,667	250,667	7.82	5.93	18.9	252,648
Regional Shopping Center	45.1	41.5	38.7	291	0.83	0.62	5.14	5.76	0.58	1.59	2.17	—	85,063	85,063	3.76	4.15	6.71	86,400
Unrefrigerated Warehouse-No Rail	18.7	16.8	12.3	202	0.55	0.23	2.96	3.19	0.21	0.88	1.10	—	55,605	55,605	1.73	1.32	4.20	56,044
Refrigerated Warehouse-No Rail	2.86	2.56	1.88	30.9	0.08	0.04	0.45	0.49	0.03	0.14	0.17	—	8,504	8,504	0.27	0.20	0.64	8,571

City Park	29.1	25.7	36.6	278	0.90	0.65	5.66	6.31	0.61	1.75	2.36	—	92,328	92,328	3.13	4.06	7.39	93,625
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4.69	2.43	120	31.8	1.10	2.03	9.32	11.4	1.95	3.00	4.95	—	118,364	118,364	2.03	17.9	7.40	123,752
User Defined Commercial	2.45	1.27	62.8	16.6	0.58	1.06	4.87	5.93	1.02	1.57	2.58	—	61,809	61,809	1.06	9.34	3.86	64,622
Total	187	166	328	1,762	6.52	5.67	41.7	47.4	5.35	12.9	18.3	—	672,340	672,340	19.8	42.9	49.1	685,663
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	11.3	10.1	7.69	128	0.34	0.14	1.79	1.93	0.13	0.53	0.66	—	30,929	30,929	0.96	0.74	38.5	31,212
Regional Shopping Center	4.95	4.56	4.22	32.2	0.09	0.07	0.54	0.61	0.06	0.17	0.23	—	8,212	8,212	0.37	0.41	10.7	8,353
Unrefrigerated Warehouse-No Rail	2.48	2.22	1.69	28.1	0.07	0.03	0.39	0.43	0.03	0.12	0.15	—	6,808	6,808	0.21	0.16	8.47	6,870
Refrigerated Warehouse-No Rail	0.38	0.34	0.26	4.29	0.01	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	1,041	1,041	0.03	0.02	1.29	1,051
City Park	2.74	2.41	3.53	27.3	0.09	0.06	0.54	0.60	0.06	0.17	0.22	—	7,989	7,989	0.27	0.35	10.5	8,111
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.63	0.33	16.1	4.19	0.15	0.27	1.24	1.51	0.26	0.40	0.66	—	14,230	14,230	0.24	2.15	14.8	14,892

User Defined Commercial	0.33	0.17	8.52	2.22	0.08	0.14	0.65	0.80	0.14	0.21	0.35	—	7,538	7,538	0.13	1.14	7.84	7,889
Total	22.8	20.1	42.0	226	0.82	0.71	5.21	5.93	0.67	1.61	2.29	—	76,747	76,747	2.21	4.97	92.1	78,376

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	87.6	78.8	50.0	1,128	2.68	1.04	13.3	14.4	0.96	3.98	4.94	—	271,472	271,472	7.63	5.52	731	274,037
Regional Shopping Center	47.8	44.2	36.2	342	0.89	0.62	5.14	5.76	0.58	1.59	2.17	—	90,520	90,520	3.61	4.02	259	92,068
Unrefrigerated Warehouse-No Rail	19.4	17.5	11.1	250	0.60	0.23	2.96	3.19	0.21	0.88	1.10	—	60,220	60,220	1.69	1.22	162	60,789
Refrigerated Warehouse-No Rail	2.97	2.67	1.69	38.3	0.09	0.04	0.45	0.49	0.03	0.14	0.17	—	9,210	9,210	0.26	0.19	24.8	9,297
City Park	30.6	27.1	34.1	340	0.96	0.65	5.66	6.31	0.61	1.75	2.36	—	98,353	98,353	3.07	3.94	285	99,889
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4.80	2.52	115	31.6	1.10	2.03	9.32	11.4	1.94	3.00	4.94	—	118,328	118,328	2.04	17.9	285	123,991

User Defined Commercial	2.51	1.32	60.1	16.5	0.58	1.06	4.87	5.93	1.02	1.57	2.58	—	61,790	61,790	1.06	9.33	149	64,747
Total	196	174	308	2,148	6.90	5.67	41.7	47.4	5.35	12.9	18.3	—	709,893	709,893	19.4	42.1	1,895	724,817
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	84.4	75.6	55.5	912	2.48	1.04	13.3	14.4	0.96	3.98	4.94	—	250,667	250,667	7.82	5.93	18.9	252,648
Regional Shopping Center	45.1	41.5	38.7	291	0.83	0.62	5.14	5.76	0.58	1.59	2.17	—	85,063	85,063	3.76	4.15	6.71	86,400
Unrefrigerated Warehouse-No Rail	18.7	16.8	12.3	202	0.55	0.23	2.96	3.19	0.21	0.88	1.10	—	55,605	55,605	1.73	1.32	4.20	56,044
Refrigerated Warehouse-No Rail	2.86	2.56	1.88	30.9	0.08	0.04	0.45	0.49	0.03	0.14	0.17	—	8,504	8,504	0.27	0.20	0.64	8,571
City Park	29.1	25.7	36.6	278	0.90	0.65	5.66	6.31	0.61	1.75	2.36	—	92,328	92,328	3.13	4.06	7.39	93,625
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4.69	2.43	120	31.8	1.10	2.03	9.32	11.4	1.95	3.00	4.95	—	118,364	118,364	2.03	17.9	7.40	123,752
User Defined Commercial	2.45	1.27	62.8	16.6	0.58	1.06	4.87	5.93	1.02	1.57	2.58	—	61,809	61,809	1.06	9.34	3.86	64,622
Total	187	166	328	1,762	6.52	5.67	41.7	47.4	5.35	12.9	18.3	—	672,340	672,340	19.8	42.9	49.1	685,663
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	11.3	10.1	7.69	128	0.34	0.14	1.79	1.93	0.13	0.53	0.66	—	30,929	30,929	0.96	0.74	38.5	31,212

Regional Shopping Center	4.95	4.56	4.22	32.2	0.09	0.07	0.54	0.61	0.06	0.17	0.23	—	8,212	8,212	0.37	0.41	10.7	8,353
Unrefrigerated Warehouse-No Rail	2.48	2.22	1.69	28.1	0.07	0.03	0.39	0.43	0.03	0.12	0.15	—	6,808	6,808	0.21	0.16	8.47	6,870
Refrigerated Warehouse-No Rail	0.38	0.34	0.26	4.29	0.01	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	1,041	1,041	0.03	0.02	1.29	1,051
City Park	2.74	2.41	3.53	27.3	0.09	0.06	0.54	0.60	0.06	0.17	0.22	—	7,989	7,989	0.27	0.35	10.5	8,111
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.63	0.33	16.1	4.19	0.15	0.27	1.24	1.51	0.26	0.40	0.66	—	14,230	14,230	0.24	2.15	14.8	14,892
User Defined Commercial	0.33	0.17	8.52	2.22	0.08	0.14	0.65	0.80	0.14	0.21	0.35	—	7,538	7,538	0.13	1.14	7.84	7,889
Total	22.8	20.1	42.0	226	0.82	0.71	5.21	5.93	0.67	1.61	2.29	—	76,747	76,747	2.21	4.97	92.1	78,376

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	42,414	42,414	4.04	0.49	—	42,662
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	42,414	42,414	4.04	0.49	—	42,662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	2,654	2,654	0.25	0.03	—	2,669
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	307	307	0.03	< 0.005	—	308
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,128	3,128	0.30	0.04	—	3,146

City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,022	7,022	0.67	0.08	—	7,063

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	13,387	13,387	1.28	0.15	—	13,465
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,161	1,161	0.11	0.01	—	1,168
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,787	4,787	0.46	0.06	—	4,815
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	8,568	8,568	0.82	0.10	—	8,618
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,903	27,903	2.66	0.32	—	28,065
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	13,387	13,387	1.28	0.15	—	13,465
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,161	1,161	0.11	0.01	—	1,168
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,787	4,787	0.46	0.06	—	4,815
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	8,568	8,568	0.82	0.10	—	8,618
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,903	27,903	2.66	0.32	—	28,065
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	2,216	2,216	0.21	0.03	—	2,229
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	192	192	0.02	< 0.005	—	193
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	793	793	0.08	0.01	—	797
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,419	1,419	0.14	0.02	—	1,427
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,620	4,620	0.44	0.05	—	4,647

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

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

Refrigerated	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

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

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

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	38.6	35.6	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Total	38.6	158	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.83	4.45	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104
Total	4.83	26.8	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104

4.3.1. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	38.6	35.6	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Total	38.6	158	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.83	4.45	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104
Total	4.83	26.8	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	600	2,023	2,624	61.8	1.49	—	4,611
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	22.8	77.0	99.8	2.35	0.06	—	175

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

Refrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	222	747	968	22.8	0.55	—	1,701
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	210	210	0.02	< 0.005	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	99.4	335	434	10.2	0.25	—	763
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.78	12.7	16.5	0.39	0.01	—	29.0
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	188	633	821	19.3	0.47	—	1,444
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	36.7	124	160	3.77	0.09	—	282
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	34.7	34.7	< 0.005	< 0.005	—	34.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553

4.4.1. Mitigated

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

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

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

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

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

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

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

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25.3	0.00	—	886
City Park	—	—	—	—	—	—	—	—	—	—	—	2.79	0.00	2.79	0.28	0.00	—	9.77
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	15.1	0.00	15.1	1.51	0.00	—	52.7
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	752

Refrigerated	—	—	—	—	—	—	—	—	—	—	—	41.9	0.00	41.9	4.19	0.00	—	147
City Park	—	—	—	—	—	—	—	—	—	—	—	0.46	0.00	0.46	0.05	0.00	—	1.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465

4.5.1. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.3	0.00	—	3,092
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542

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

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	15.1	0.00	15.1	1.51	0.00	—	52.7
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	752
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	41.9	0.00	41.9	4.19	0.00	—	147
City Park	—	—	—	—	—	—	—	—	—	—	—	0.46	0.00	0.46	0.05	0.00	—	1.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.42
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4	84.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	394,977	32,067	29,101	106,165,726
Regional Shopping Center	6,354	12,303	8,990	2,766,960	52,049	112,827	82,441	23,751,698
Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	87,617	7,186	2,874	23,367,583
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	13,400	1,092	441	3,573,488
City Park	2,145	5,550	6,202	1,171,975	42,961	111,175	124,221	23,474,668

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	43,259	3,531	98.1	11,467,585
User Defined Commercial	705	58.2	52.9	189,665	22,590	1,864	1,694	6,074,985

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	394,977	32,067	29,101	106,165,726
Regional Shopping Center	6,354	12,303	8,990	2,766,960	52,049	112,827	82,441	23,751,698
Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	87,617	7,186	2,874	23,367,583
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	13,400	1,092	441	3,573,488
City Park	2,145	5,550	6,202	1,171,975	42,961	111,175	124,221	23,474,668
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	43,259	3,531	98.1	11,467,585
User Defined Commercial	705	58.2	52.9	189,665	22,590	1,864	1,694	6,074,985

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

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

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

User Defined Industrial	0.00	346	0.0330	0.0040	0.00
User Defined Commercial	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Office Park	14,114,118	346	0.0330	0.0040	0.00
Regional Shopping Center	1,224,052	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,046,785	346	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	9,033,455	346	0.0330	0.0040	0.00
City Park	0.00	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
User Defined Commercial	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

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

User Defined Commercial	0.00	0.00

5.12.2. Mitigated

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

5.13. Operational Waste Generation

5.13.1. Unmitigated

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

5.13.2. Mitigated

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

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

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

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	97.6
AQ-PM	59.8
AQ-DPM	40.3
Drinking Water	70.7
Lead Risk Housing	53.6
Pesticides	13.2
Toxic Releases	64.0
Traffic	82.0
Effect Indicators	—
CleanUp Sites	82.5
Groundwater	97.9
Haz Waste Facilities/Generators	87.9
Impaired Water Bodies	0.00
Solid Waste	84.9
Sensitive Population	—
Asthma	71.5
Cardio-vascular	86.8
Low Birth Weights	97.0
Socioeconomic Factor Indicators	—
Education	82.5
Housing	59.7
Linguistic	82.8
Poverty	89.3

Unemployment	81.0

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	8.353650712
Employed	6.480174516
Median HI	22.3662261
Education	—
Bachelor's or higher	30.14243552
High school enrollment	100
Preschool enrollment	10.97138458
Transportation	—
Auto Access	10.29128705
Active commuting	87.46310792
Social	—
2-parent households	6.223533941
Voting	6.13370974
Neighborhood	—
Alcohol availability	44.43731554
Park access	43.37225715
Retail density	18.60644168
Supermarket access	67.43231105
Tree canopy	3.977928911
Housing	—
Homeownership	8.353650712

Housing habitability	10.4452714
Low-inc homeowner severe housing cost burden	45.06608495
Low-inc renter severe housing cost burden	46.23379956
Uncrowded housing	21.62196843
Health Outcomes	—
Insured adults	12.4085718
Arthritis	51.7
Asthma ER Admissions	24.0
High Blood Pressure	30.0
Cancer (excluding skin)	80.0
Asthma	9.8
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	27.0
Diagnosed Diabetes	31.9
Life Expectancy at Birth	7.4
Cognitively Disabled	15.9
Physically Disabled	19.5
Heart Attack ER Admissions	20.1
Mental Health Not Good	14.9
Chronic Kidney Disease	35.4
Obesity	8.3
Pedestrian Injuries	77.2
Physical Health Not Good	20.0
Stroke	29.9
Health Risk Behaviors	—
Binge Drinking	63.5
Current Smoker	15.5

No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	18.1
Elderly	24.3
English Speaking	44.9
Foreign-born	53.3
Outdoor Workers	18.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	73.9
Traffic Density	76.9
Traffic Access	61.5
Other Indices	—
Hardship	89.9
Other Decision Support	—
2016 Voting	11.6

7.3. Overall Health & Equity Scores

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

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

APPENDIX 5.4:

CALEEMOD OPERATIONS EMISSIONS MODEL OUTPUTS – LSTS

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14064 West Campus Upper Plateau Ops LST Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

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

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—
Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—

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

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	168	283	70.9	656	0.78	0.94	23.6	24.5	0.99	4.19	5.18	4,510	128,588	133,098	468	11.8	702	148,997
Mit.	168	283	70.9	656	0.78	0.94	23.6	24.5	0.99	4.19	5.18	4,510	114,076	118,586	466	11.6	702	134,401
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	11%	11%	< 0.5%	1%	—	10%

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	122	239	73.4	431	0.72	0.65	23.6	24.2	0.61	4.19	4.80	4,510	123,719	128,229	468	11.8	518	143,987
Mit.	122	239	73.4	431	0.72	0.65	23.6	24.2	0.61	4.19	4.80	4,510	109,207	113,717	467	11.7	518	129,391
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	12%	11%	< 0.5%	1%	—	10%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	107	224	51.2	444	0.50	0.64	15.8	16.4	0.67	2.80	3.47	4,510	100,312	104,821	466	9.84	567	119,969
Mit.	107	224	51.2	444	0.50	0.64	15.8	16.4	0.67	2.80	3.47	4,510	85,800	90,310	465	9.68	567	105,373
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	14%	14%	< 0.5%	2%	—	12%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.6	40.8	9.35	81.0	0.09	0.12	2.88	2.99	0.12	0.51	0.63	747	16,608	17,354	77.1	1.63	93.9	19,862
Mit.	19.6	40.8	9.35	81.0	0.09	0.12	2.88	2.99	0.12	0.51	0.63	747	14,205	14,952	76.9	1.60	93.9	17,446
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	14%	14%	< 0.5%	2%	—	12%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	130	125	69.1	439	0.76	0.65	23.6	24.2	0.61	4.19	4.79	—	78,399	78,399	7.22	6.27	190	80,639
Area	38.6	158	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	42,414	42,414	4.04	0.49	—	42,662
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418

Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	168	283	70.9	656	0.78	0.94	23.6	24.5	0.99	4.19	5.18	4,510	128,588	133,098	468	11.8	702	148,997
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	117	73.4	431	0.72	0.65	23.6	24.2	0.61	4.19	4.80	—	74,422	74,422	7.91	6.45	4.92	76,547
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	42,414	42,414	4.04	0.49	—	42,662
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	122	239	73.4	431	0.72	0.65	23.6	24.2	0.61	4.19	4.80	4,510	123,719	128,229	468	11.8	518	143,987
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	80.7	77.2	50.0	295	0.49	0.44	15.8	16.2	0.41	2.80	3.21	—	50,404	50,404	5.33	4.39	54.6	51,900
Area	26.4	147	1.25	149	0.01	0.20	—	0.20	0.26	—	0.26	—	611	611	0.03	0.06	—	629
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	42,414	42,414	4.04	0.49	—	42,662
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	107	224	51.2	444	0.50	0.64	15.8	16.4	0.67	2.80	3.47	4,510	100,312	104,821	466	9.84	567	119,969
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.7	14.1	9.12	53.9	0.09	0.08	2.88	2.96	0.07	0.51	0.59	—	8,345	8,345	0.88	0.73	9.04	8,593
Area	4.83	26.8	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,022	7,022	0.67	0.08	—	7,063
Water	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9

Total	19.6	40.8	9.35	81.0	0.09	0.12	2.88	2.99	0.12	0.51	0.63	747	16,608	17,354	77.1	1.63	93.9	19,862

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	130	125	69.1	439	0.76	0.65	23.6	24.2	0.61	4.19	4.79	—	78,399	78,399	7.22	6.27	190	80,639
Area	38.6	158	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	27,903	27,903	2.66	0.32	—	28,065
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	168	283	70.9	656	0.78	0.94	23.6	24.5	0.99	4.19	5.18	4,510	114,076	118,586	466	11.6	702	134,401
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	117	73.4	431	0.72	0.65	23.6	24.2	0.61	4.19	4.80	—	74,422	74,422	7.91	6.45	4.92	76,547
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	27,903	27,903	2.66	0.32	—	28,065
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	122	239	73.4	431	0.72	0.65	23.6	24.2	0.61	4.19	4.80	4,510	109,207	113,717	467	11.7	518	129,391
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	80.7	77.2	50.0	295	0.49	0.44	15.8	16.2	0.41	2.80	3.21	—	50,404	50,404	5.33	4.39	54.6	51,900
Area	26.4	147	1.25	149	0.01	0.20	—	0.20	0.26	—	0.26	—	611	611	0.03	0.06	—	629

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	27,903	27,903	2.66	0.32	—	28,065
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Total	107	224	51.2	444	0.50	0.64	15.8	16.4	0.67	2.80	3.47	4,510	85,800	90,310	465	9.68	567	105,373
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.7	14.1	9.12	53.9	0.09	0.08	2.88	2.96	0.07	0.51	0.59	—	8,345	8,345	0.88	0.73	9.04	8,593
Area	4.83	26.8	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	4,620	4,620	0.44	0.05	—	4,647
Water	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9
Total	19.6	40.8	9.35	81.0	0.09	0.12	2.88	2.99	0.12	0.51	0.63	747	14,205	14,952	76.9	1.60	93.9	17,446

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	55.1	53.3	13.4	201	0.30	0.17	1.33	1.51	0.16	0.40	0.56	—	29,862	29,862	2.89	1.68	73.0	30,507
Regional Shopping Center	38.6	37.4	14.0	107	0.16	0.14	0.84	0.99	0.13	0.26	0.39	—	16,697	16,697	1.85	1.34	42.5	17,186

Unrefrige Warehouse-No Rail	12.2	11.8	2.97	44.5	0.07	0.04	0.30	0.33	0.04	0.09	0.12	—	6,624	6,624	0.64	0.37	16.2	6,767
Refrigerated Warehouse-No Rail	1.87	1.81	0.45	6.81	0.01	0.01	0.05	0.05	0.01	0.01	0.02	—	1,013	1,013	0.10	0.06	2.48	1,035
City Park	19.8	19.1	7.75	61.7	0.11	0.09	0.57	0.65	0.08	0.17	0.26	—	10,815	10,815	0.99	0.76	28.4	11,096
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.47	0.91	20.1	11.9	0.08	0.13	0.58	0.71	0.13	0.19	0.31	—	8,795	8,795	0.49	1.35	17.8	9,229
User Defined Commercial	0.77	0.48	10.5	6.22	0.04	0.07	0.30	0.37	0.07	0.10	0.16	—	4,593	4,593	0.26	0.71	9.30	4,819
Total	130	125	69.1	439	0.76	0.65	3.97	4.62	0.61	1.22	1.83	—	78,399	78,399	7.22	6.27	190	80,639
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	52.4	50.5	14.5	195	0.27	0.17	1.33	1.51	0.16	0.40	0.56	—	27,815	27,815	3.22	1.76	1.89	28,420
Regional Shopping Center	36.1	34.8	14.8	107	0.15	0.14	0.84	0.99	0.13	0.26	0.39	—	15,825	15,825	2.04	1.39	1.10	16,290
Unrefrigerated Warehouse-No Rail	11.6	11.2	3.21	43.2	0.06	0.04	0.30	0.33	0.04	0.09	0.12	—	6,170	6,170	0.71	0.39	0.42	6,304
Refrigerated Warehouse-No Rail	1.78	1.71	0.49	6.60	0.01	0.01	0.05	0.05	0.01	0.01	0.02	—	944	944	0.11	0.06	0.06	964

City Park	18.5	17.7	8.25	60.1	0.10	0.09	0.57	0.65	0.08	0.17	0.26	—	10,226	10,226	1.08	0.79	0.74	10,489
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.37	0.82	21.1	12.3	0.08	0.13	0.58	0.71	0.13	0.19	0.31	—	8,831	8,831	0.49	1.36	0.46	9,249
User Defined Commercial	0.72	0.43	11.0	6.41	0.04	0.07	0.30	0.37	0.07	0.10	0.16	—	4,612	4,612	0.26	0.71	0.24	4,830
Total	122	117	73.4	431	0.72	0.65	3.97	4.62	0.61	1.22	1.83	—	74,422	74,422	7.91	6.45	4.92	76,547
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	6.96	6.70	1.98	26.8	0.04	0.02	0.18	0.20	0.02	0.05	0.08	—	3,428	3,428	0.39	0.22	3.84	3,506
Regional Shopping Center	4.00	3.85	1.64	12.1	0.02	0.02	0.09	0.10	0.01	0.03	0.04	—	1,543	1,543	0.21	0.14	1.76	1,591
Unrefrigerated Warehouse-No Rail	1.53	1.47	0.44	5.90	0.01	0.01	0.04	0.04	< 0.005	0.01	0.02	—	755	755	0.09	0.05	0.85	772
Refrigerated Warehouse-No Rail	0.23	0.23	0.07	0.90	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	115	115	0.01	0.01	0.13	118
City Park	1.73	1.66	0.78	5.80	0.01	0.01	0.05	0.06	0.01	0.02	0.02	—	884	884	0.09	0.07	1.05	908
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.19	0.11	2.75	1.60	0.01	0.02	0.08	0.09	0.02	0.02	0.04	—	1,059	1,059	0.06	0.16	0.92	1,110

User Defined Commercial	0.10	0.06	1.46	0.85	0.01	0.01	0.04	0.05	0.01	0.01	0.02	—	561	561	0.03	0.09	0.49	588
Total	14.7	14.1	9.12	53.9	0.09	0.08	0.49	0.56	0.07	0.15	0.22	—	8,345	8,345	0.88	0.73	9.04	8,593

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	55.1	53.3	13.4	201	0.30	0.17	1.33	1.51	0.16	0.40	0.56	—	29,862	29,862	2.89	1.68	73.0	30,507
Regional Shopping Center	38.6	37.4	14.0	107	0.16	0.14	0.84	0.99	0.13	0.26	0.39	—	16,697	16,697	1.85	1.34	42.5	17,186
Unrefrigerated Warehouse-No Rail	12.2	11.8	2.97	44.5	0.07	0.04	0.30	0.33	0.04	0.09	0.12	—	6,624	6,624	0.64	0.37	16.2	6,767
Refrigerated Warehouse-No Rail	1.87	1.81	0.45	6.81	0.01	0.01	0.05	0.05	0.01	0.01	0.02	—	1,013	1,013	0.10	0.06	2.48	1,035
City Park	19.8	19.1	7.75	61.7	0.11	0.09	0.57	0.65	0.08	0.17	0.26	—	10,815	10,815	0.99	0.76	28.4	11,096
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.47	0.91	20.1	11.9	0.08	0.13	0.58	0.71	0.13	0.19	0.31	—	8,795	8,795	0.49	1.35	17.8	9,229

User Defined Commercial	0.77	0.48	10.5	6.22	0.04	0.07	0.30	0.37	0.07	0.10	0.16	—	4,593	4,593	0.26	0.71	9.30	4,819
Total	130	125	69.1	439	0.76	0.65	3.97	4.62	0.61	1.22	1.83	—	78,399	78,399	7.22	6.27	190	80,639
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	52.4	50.5	14.5	195	0.27	0.17	1.33	1.51	0.16	0.40	0.56	—	27,815	27,815	3.22	1.76	1.89	28,420
Regional Shopping Center	36.1	34.8	14.8	107	0.15	0.14	0.84	0.99	0.13	0.26	0.39	—	15,825	15,825	2.04	1.39	1.10	16,290
Unrefrigerated Warehouse-No Rail	11.6	11.2	3.21	43.2	0.06	0.04	0.30	0.33	0.04	0.09	0.12	—	6,170	6,170	0.71	0.39	0.42	6,304
Refrigerated Warehouse-No Rail	1.78	1.71	0.49	6.60	0.01	0.01	0.05	0.05	0.01	0.01	0.02	—	944	944	0.11	0.06	0.06	964
City Park	18.5	17.7	8.25	60.1	0.10	0.09	0.57	0.65	0.08	0.17	0.26	—	10,226	10,226	1.08	0.79	0.74	10,489
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.37	0.82	21.1	12.3	0.08	0.13	0.58	0.71	0.13	0.19	0.31	—	8,831	8,831	0.49	1.36	0.46	9,249
User Defined Commercial	0.72	0.43	11.0	6.41	0.04	0.07	0.30	0.37	0.07	0.10	0.16	—	4,612	4,612	0.26	0.71	0.24	4,830
Total	122	117	73.4	431	0.72	0.65	3.97	4.62	0.61	1.22	1.83	—	74,422	74,422	7.91	6.45	4.92	76,547
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	6.96	6.70	1.98	26.8	0.04	0.02	0.18	0.20	0.02	0.05	0.08	—	3,428	3,428	0.39	0.22	3.84	3,506

Regional Shopping Center	4.00	3.85	1.64	12.1	0.02	0.02	0.09	0.10	0.01	0.03	0.04	—	1,543	1,543	0.21	0.14	1.76	1,591
Unrefrigerated Warehouse-No Rail	1.53	1.47	0.44	5.90	0.01	0.01	0.04	0.04	< 0.005	0.01	0.02	—	755	755	0.09	0.05	0.85	772
Refrigerated Warehouse-No Rail	0.23	0.23	0.07	0.90	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	115	115	0.01	0.01	0.13	118
City Park	1.73	1.66	0.78	5.80	0.01	0.01	0.05	0.06	0.01	0.02	0.02	—	884	884	0.09	0.07	1.05	908
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.19	0.11	2.75	1.60	0.01	0.02	0.08	0.09	0.02	0.02	0.04	—	1,059	1,059	0.06	0.16	0.92	1,110
User Defined Commercial	0.10	0.06	1.46	0.85	0.01	0.01	0.04	0.05	0.01	0.01	0.02	—	561	561	0.03	0.09	0.49	588
Total	14.7	14.1	9.12	53.9	0.09	0.08	0.49	0.56	0.07	0.15	0.22	—	8,345	8,345	0.88	0.73	9.04	8,593

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	42,414	42,414	4.04	0.49	—	42,662
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	42,414	42,414	4.04	0.49	—	42,662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	2,654	2,654	0.25	0.03	—	2,669
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	307	307	0.03	< 0.005	—	308
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,128	3,128	0.30	0.04	—	3,146

City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,022	7,022	0.67	0.08	—	7,063

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	13,387	13,387	1.28	0.15	—	13,465
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,161	1,161	0.11	0.01	—	1,168
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,787	4,787	0.46	0.06	—	4,815
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	8,568	8,568	0.82	0.10	—	8,618
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,903	27,903	2.66	0.32	—	28,065
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	13,387	13,387	1.28	0.15	—	13,465
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,161	1,161	0.11	0.01	—	1,168
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,787	4,787	0.46	0.06	—	4,815
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	8,568	8,568	0.82	0.10	—	8,618
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	27,903	27,903	2.66	0.32	—	28,065
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	2,216	2,216	0.21	0.03	—	2,229
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	192	192	0.02	< 0.005	—	193
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	793	793	0.08	0.01	—	797
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,419	1,419	0.14	0.02	—	1,427
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,620	4,620	0.44	0.05	—	4,647

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

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

Refrigerated	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

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

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

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	38.6	35.6	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Total	38.6	158	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.83	4.45	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104
Total	4.83	26.8	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104

4.3.1. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	38.6	35.6	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Total	38.6	158	1.82	217	0.01	0.29	—	0.29	0.39	—	0.39	—	892	892	0.04	0.08	—	918
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.83	4.45	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104
Total	4.83	26.8	0.23	27.1	< 0.005	0.04	—	0.04	0.05	—	0.05	—	101	101	< 0.005	0.01	—	104

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	600	2,023	2,624	61.8	1.49	—	4,611
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	22.8	77.0	99.8	2.35	0.06	—	175

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

Refrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	222	747	968	22.8	0.55	—	1,701
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	210	210	0.02	< 0.005	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	99.4	335	434	10.2	0.25	—	763
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.78	12.7	16.5	0.39	0.01	—	29.0
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	188	633	821	19.3	0.47	—	1,444
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	36.7	124	160	3.77	0.09	—	282
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	34.7	34.7	< 0.005	< 0.005	—	34.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553

4.4.1. Mitigated

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

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

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

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

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

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

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

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25.3	0.00	—	886
City Park	—	—	—	—	—	—	—	—	—	—	—	2.79	0.00	2.79	0.28	0.00	—	9.77
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	15.1	0.00	15.1	1.51	0.00	—	52.7
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	752

Refrigerated	—	—	—	—	—	—	—	—	—	—	—	41.9	0.00	41.9	4.19	0.00	—	147
City Park	—	—	—	—	—	—	—	—	—	—	—	0.46	0.00	0.46	0.05	0.00	—	1.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465

4.5.1. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.3	0.00	—	3,092
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542

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

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	15.1	0.00	15.1	1.51	0.00	—	52.7
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	752
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	41.9	0.00	41.9	4.19	0.00	—	147
City Park	—	—	—	—	—	—	—	—	—	—	—	0.46	0.00	0.46	0.05	0.00	—	1.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.42
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4	84.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	39,439	3,202	2,906	10,600,672
Regional Shopping Center	6,354	12,303	8,990	2,766,960	8,604	18,529	13,539	3,915,225
Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	8,749	718	287	2,333,258
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	1,338	109	44.0	356,814
City Park	2,145	5,550	6,202	1,171,975	4,290	11,101	12,403	2,343,951

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	2,701	221	6.13	716,053
User Defined Commercial	705	58.2	52.9	189,665	1,411	116	106	379,331

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	39,439	3,202	2,906	10,600,672
Regional Shopping Center	6,354	12,303	8,990	2,766,960	8,604	18,529	13,539	3,915,225
Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	8,749	718	287	2,333,258
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	1,338	109	44.0	356,814
City Park	2,145	5,550	6,202	1,171,975	4,290	11,101	12,403	2,343,951
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	2,701	221	6.13	716,053
User Defined Commercial	705	58.2	52.9	189,665	1,411	116	106	379,331

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

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

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

User Defined Industrial	0.00	346	0.0330	0.0040	0.00
User Defined Commercial	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Office Park	14,114,118	346	0.0330	0.0040	0.00
Regional Shopping Center	1,224,052	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,046,785	346	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	9,033,455	346	0.0330	0.0040	0.00
City Park	0.00	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
User Defined Commercial	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

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

User Defined Commercial	0.00	0.00

5.12.2. Mitigated

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

5.13. Operational Waste Generation

5.13.1. Unmitigated

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

5.13.2. Mitigated

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

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

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

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	97.6
AQ-PM	59.8
AQ-DPM	40.3
Drinking Water	70.7
Lead Risk Housing	53.6
Pesticides	13.2
Toxic Releases	64.0
Traffic	82.0
Effect Indicators	—
CleanUp Sites	82.5
Groundwater	97.9
Haz Waste Facilities/Generators	87.9
Impaired Water Bodies	0.00
Solid Waste	84.9
Sensitive Population	—
Asthma	71.5
Cardio-vascular	86.8
Low Birth Weights	97.0
Socioeconomic Factor Indicators	—
Education	82.5
Housing	59.7
Linguistic	82.8
Poverty	89.3

Unemployment	81.0

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	8.353650712
Employed	6.480174516
Median HI	22.3662261
Education	—
Bachelor's or higher	30.14243552
High school enrollment	100
Preschool enrollment	10.97138458
Transportation	—
Auto Access	10.29128705
Active commuting	87.46310792
Social	—
2-parent households	6.223533941
Voting	6.13370974
Neighborhood	—
Alcohol availability	44.43731554
Park access	43.37225715
Retail density	18.60644168
Supermarket access	67.43231105
Tree canopy	3.977928911
Housing	—
Homeownership	8.353650712

Housing habitability	10.4452714
Low-inc homeowner severe housing cost burden	45.06608495
Low-inc renter severe housing cost burden	46.23379956
Uncrowded housing	21.62196843
Health Outcomes	—
Insured adults	12.4085718
Arthritis	51.7
Asthma ER Admissions	24.0
High Blood Pressure	30.0
Cancer (excluding skin)	80.0
Asthma	9.8
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	27.0
Diagnosed Diabetes	31.9
Life Expectancy at Birth	7.4
Cognitively Disabled	15.9
Physically Disabled	19.5
Heart Attack ER Admissions	20.1
Mental Health Not Good	14.9
Chronic Kidney Disease	35.4
Obesity	8.3
Pedestrian Injuries	77.2
Physical Health Not Good	20.0
Stroke	29.9
Health Risk Behaviors	—
Binge Drinking	63.5
Current Smoker	15.5

No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	18.1
Elderly	24.3
English Speaking	44.9
Foreign-born	53.3
Outdoor Workers	18.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	73.9
Traffic Density	76.9
Traffic Access	61.5
Other Indices	—
Hardship	89.9
Other Decision Support	—
2016 Voting	11.6

7.3. Overall Health & Equity Scores

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

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

APPENDIX 5.5:

AERMOD LST MODELING OUTPUTS – CONSTRUCTION

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** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons CO\14064 Cons
CO.ADI
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** AERMOD Control Pathway
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**
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CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons CO.err"
CO FINISHED
**
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** AERMOD Source Pathway
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**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
   LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
   LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
   LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
   LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
   LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL2         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL3         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL4         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL5         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL6         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL7         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL8         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL9         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL10        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL11        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL12        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL13        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL14        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL15        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL16        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL17        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL18        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL19        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL20        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL21        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL22        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL23        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL24        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL25        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL26        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL27        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL28        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL29        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL30        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL31        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL32        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL33        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL34        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL35        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL36        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL37        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL38        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL39        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL40        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL41        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL42        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL43        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL44        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL45        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL46        0.152280251     5.000    43.702     1.400
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   SRCPARAM VOL47        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL48        0.152280251     5.000    43.702     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
```

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   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14064 Cons CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 CONS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14064 CONS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14064 Cons CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons CO\14064 Cons
CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
   LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
   LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
   LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
   LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
   LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL2         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL3         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL4         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL5         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL6         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL7         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL8         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL9         0.152280251     5.000    43.702     1.400
   SRCPARAM VOL10        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL11        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL12        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL13        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL14        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL15        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL16        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL17        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL18        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL19        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL20        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL21        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL22        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL23        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL24        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL25        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL26        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL27        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL28        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL29        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL30        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL31        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL32        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL33        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL34        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL35        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL36        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL37        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL38        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL39        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL40        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL41        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL42        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL43        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL44        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL45        0.152280251     5.000    43.702     1.400
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   SRCPARAM VOL46        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL47        0.152280251     5.000    43.702     1.400
   SRCPARAM VOL48        0.152280251     5.000    43.702     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED "14064 Cons CO.rou"
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 CONS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14064 CONS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14064 Cons CO.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     881       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     881       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
```

```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    48 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: CO

**Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR

**This Run Includes:     48 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     48 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	
VOL1	0	0.15228E+00	471175.5	3752366.4	510.2	5.00	43.70	1.40	YES HRDOW
VOL2	0	0.15228E+00	471362.2	3752367.6	512.4	5.00	43.70	1.40	YES HRDOW
VOL3	0	0.15228E+00	471550.1	3752368.4	518.9	5.00	43.70	1.40	YES HRDOW
VOL4	0	0.15228E+00	471609.6	3752371.6	516.0	5.00	43.70	1.40	YES HRDOW
VOL5	0	0.15228E+00	471796.7	3752342.2	515.1	5.00	43.70	1.40	YES HRDOW
VOL6	0	0.15228E+00	471984.7	3752344.6	513.6	5.00	43.70	1.40	YES HRDOW
VOL7	0	0.15228E+00	472003.7	3752347.0	512.1	5.00	43.70	1.40	YES HRDOW
VOL8	0	0.15228E+00	472002.9	3752159.1	521.6	5.00	43.70	1.40	YES HRDOW
VOL9	0	0.15228E+00	471814.2	3752156.7	520.7	5.00	43.70	1.40	YES HRDOW
VOL10	0	0.15228E+00	471628.6	3752181.3	526.8	5.00	43.70	1.40	YES HRDOW
VOL11	0	0.15228E+00	471440.7	3752181.3	527.4	5.00	43.70	1.40	YES HRDOW
VOL12	0	0.15228E+00	471253.6	3752180.5	518.9	5.00	43.70	1.40	YES HRDOW
VOL13	0	0.15228E+00	471092.6	3752217.7	509.6	5.00	43.70	1.40	YES HRDOW
VOL14	0	0.15228E+00	471074.4	3752029.0	516.1	5.00	43.70	1.40	YES HRDOW
VOL15	0	0.15228E+00	471263.9	3751992.5	521.1	5.00	43.70	1.40	YES HRDOW
VOL16	0	0.15228E+00	471452.6	3751994.1	530.0	5.00	43.70	1.40	YES HRDOW
VOL17	0	0.15228E+00	471640.5	3751992.5	534.9	5.00	43.70	1.40	YES HRDOW
VOL18	0	0.15228E+00	471827.7	3751968.0	533.0	5.00	43.70	1.40	

```
 YES   HRDOW
 VOL19            0   0.15228E+00  472002.9 3751970.3   527.9     5.00    43.70     1.40
 YES   HRDOW
 VOL20            0   0.15228E+00  471845.1 3751780.0   538.8     5.00    43.70     1.40
 YES   HRDOW
 VOL21            0   0.15228E+00  471657.2 3751803.8   536.0     5.00    43.70     1.40
 YES   HRDOW
 VOL22            0   0.15228E+00  471468.5 3751806.2   528.3     5.00    43.70     1.40
 YES   HRDOW
 VOL23            0   0.15228E+00  471280.5 3751807.0   525.0     5.00    43.70     1.40
 YES   HRDOW
 VOL24            0   0.15228E+00  471093.4 3751841.9   515.6     5.00    43.70     1.40
 YES   HRDOW
 VOL25            0   0.15228E+00  470978.4 3751841.9   518.1     5.00    43.70     1.40
 YES   HRDOW
 VOL26            0   0.15228E+00  471014.1 3751654.8   520.4     5.00    43.70     1.40
 YES   HRDOW
 VOL27            0   0.15228E+00  471201.2 3751654.8   525.1     5.00    43.70     1.40
 YES   HRDOW
 VOL28            0   0.15228E+00  471389.2 3751619.1   534.9     5.00    43.70     1.40
 YES   HRDOW
 VOL29            0   0.15228E+00  471577.9 3751616.7   529.0     5.00    43.70     1.40
 YES   HRDOW
 VOL30            0   0.15228E+00  471724.6 3751620.7   533.8     5.00    43.70     1.40
 YES   HRDOW
 VOL31            0   0.15228E+00  471941.0 3751865.7   534.6     5.00    43.70     1.40
 YES   HRDOW
 VOL32            0   0.15228E+00  471795.2 3751684.9   537.3     5.00    43.70     1.40
 YES   HRDOW
 VOL33            0   0.15228E+00  471577.9 3751434.3   531.1     5.00    43.70     1.40
 YES   HRDOW
 VOL34            0   0.15228E+00  471390.0 3751431.9   537.3     5.00    43.70     1.40
 YES   HRDOW
 VOL35            0   0.15228E+00  471202.0 3751467.6   526.8     5.00    43.70     1.40
 YES   HRDOW
 VOL36            0   0.15228E+00  471065.7 3751504.9   522.0     5.00    43.70     1.40
 YES   HRDOW
 VOL37            0   0.15228E+00  471656.4 3751514.4   529.5     5.00    43.70     1.40
 YES   HRDOW
 VOL38            0   0.15228E+00  471522.4 3751324.1   529.0     5.00    43.70     1.40
 YES   HRDOW
 VOL39            0   0.15228E+00  471332.9 3751322.5   529.5     5.00    43.70     1.40
 YES   HRDOW
 VOL40            0   0.15228E+00  471282.9 3751321.7   528.2     5.00    43.70     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - -

 VOL41            0   0.15228E+00  471233.8 3751388.3   528.5     5.00    43.70     1.40
```

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 YES   HRDOW
 VOL42            0   0.15228E+00  472135.6 3751845.1   525.8     5.00    43.70     1.40
 YES   HRDOW
 VOL43            0   0.15228E+00  472323.4 3751843.5   510.5     5.00    43.70     1.40
 YES   HRDOW
 VOL44            0   0.15228E+00  472512.5 3751852.3   501.4     5.00    43.70     1.40
 YES   HRDOW
 VOL45            0   0.15228E+00  472698.0 3751875.5   491.4     5.00    43.70     1.40
 YES   HRDOW
 VOL46            0   0.15228E+00  472880.8 3751928.7   487.9     5.00    43.70     1.40
 YES   HRDOW
 VOL47            0   0.15228E+00  472608.0 3752044.6   498.5     5.00    43.70     1.40
 YES   HRDOW
 VOL48            0   0.15228E+00  471084.5 3752407.2   506.8     5.00    43.70     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                      PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL         VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
  VOL7         , VOL8         ,

              VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
              VOL15       , VOL16       ,

              VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
              VOL23       , VOL24       ,

              VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
              VOL31       , VOL32       ,

              VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
              VOL39       , VOL40       ,

              VOL41       , VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
              VOL47       , VOL48       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                      PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                 SOURCE IDs
  --------   ---------                                 ----------


              2189641.   VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
              VOL6         , VOL7         ,
 VOL8         ,
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            VOL9       , VOL10      , VOL11      , VOL12      , VOL13      , VOL14      ,
            VOL15      , VOL16      ,

            VOL17      , VOL18      , VOL19      , VOL20      , VOL21      , VOL22      ,
            VOL23      , VOL24      ,

            VOL25      , VOL26      , VOL27      , VOL28      , VOL29      , VOL30      ,
            VOL31      , VOL32      ,

            VOL33      , VOL34      , VOL35      , VOL36      , VOL37      , VOL38      ,
            VOL39      , VOL40      ,

            VOL41      , VOL42      , VOL43      , VOL44      , VOL45      , VOL46      ,
            VOL47      , VOL48      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        09:55:11

                      PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL1         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        09:55:11

                      PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL2         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:55:11

                        PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL3         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:55:11

                        PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL8         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL9         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
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    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                      PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL10        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                      PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL11        ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL12        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/07/22
*** AERMET - VERSION 16216 ***
*** *** 09:55:11

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                      PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL15        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                      PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL16        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

DAY OF WEEK = SUNDAY

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEEKDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL19        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
```

```
                 (HRDOW) *

 SOURCE ID = VOL20        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        09:55:11

                    PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL21        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

```
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                        PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL24        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                        PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL25        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL26 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL27 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:55:11

                        PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:55:11

                        PAGE  34
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

```
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL33        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL34        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL35        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                     PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
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```
 SOURCE ID = VOL36        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:55:11

                      PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6					

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:55:11

                      PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL42        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        09:55:11

                      PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL43        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL44 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22					

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0, 499.3, 499.3, 2.0);
(472478.0, 3752183.1, 505.1, 505.1, 2.0); (472148.1, 3752531.5, 495.2, 502.0, 2.0);
(472052.1, 3752531.2, 499.4, 512.0, 2.0); (471975.5, 3752531.2, 500.5, 514.0, 2.0);
(471896.1, 3752530.9, 503.4, 513.0, 2.0); (471840.8, 3752529.9, 503.4, 513.0, 2.0);
(471816.6, 3752527.1, 500.6, 513.0, 2.0); (471736.8, 3752557.9, 501.5, 501.5, 2.0);
(471696.6, 3752558.9, 500.0, 500.0, 2.0); (471627.3, 3752556.2, 501.9, 512.0, 2.0);
(471584.6, 3752556.8, 504.5, 507.0, 2.0); (471560.0, 3752556.2, 504.6, 507.0, 2.0);
(471534.3, 3752554.9, 503.2, 509.0, 2.0); (471514.9, 3752554.9, 502.2, 519.0, 2.0);
(471486.8, 3752555.7, 503.1, 503.1, 2.0); (471465.7, 3752555.4, 503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5, 500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5, 503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9, 506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7, 505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9, 505.9, 505.9, 2.0);
(471205.9, 3752552.9, 506.2, 506.2, 2.0); (471173.2, 3752552.4, 506.5, 506.5, 2.0);
(471135.7, 3752552.5, 506.1, 506.1, 2.0); (471093.2, 3752551.5, 505.4, 505.4, 2.0);
(471059.4, 3752551.7, 504.7, 504.7, 2.0); (471020.5, 3752551.2, 503.1, 503.1, 2.0);
(470981.0, 3752563.6, 502.1, 502.1, 2.0); (470980.4, 3752552.2, 502.5, 502.5, 2.0);
(470980.1, 3752535.6, 503.0, 503.0, 2.0); (470979.9, 3752517.2, 503.7, 503.7, 2.0);
(470980.1, 3752499.8, 504.0, 504.0, 2.0); (470980.2, 3752479.8, 504.0, 504.0, 2.0);
(470980.4, 3752459.4, 504.6, 504.6, 2.0); (470980.2, 3752433.2, 505.4, 505.4, 2.0);
(470980.1, 3752404.0, 506.0, 506.0, 2.0); (470927.1, 3752402.7, 504.9, 504.9, 2.0);
(470907.9, 3752402.7, 503.1, 503.1, 2.0); (470887.3, 3752402.7, 500.9, 505.0, 2.0);

(470869.7, 3752402.0, 500.7, 500.7, 2.0); (470849.6, 3752401.9, 500.3, 500.3, 2.0);
(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2, 499.7, 499.7, 2.0);
(470791.5, 3752402.5, 499.2, 499.2, 2.0); (470773.6, 3752401.9, 498.6, 498.6, 2.0);
(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7, 497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5, 500.2, 500.2, 2.0);
(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8, 500.8, 500.8, 2.0);
(470732.9, 3752218.8, 501.2, 501.2, 2.0); (470732.5, 3752182.1, 501.8, 501.8, 2.0);
(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8, 502.5, 502.5, 2.0);
(470670.1, 3752144.5, 502.1, 502.1, 2.0); (470651.7, 3752144.3, 502.0, 502.0, 2.0);
(470633.5, 3752144.1, 501.5, 501.5, 2.0); (470615.5, 3752144.0, 500.9, 500.9, 2.0);
(470596.0, 3752143.3, 500.2, 500.2, 2.0); (470577.0, 3752143.5, 500.0, 500.0, 2.0);
(470553.6, 3752143.5, 499.7, 499.7, 2.0); (470528.6, 3752142.6, 498.8, 498.8, 2.0);
(470508.0, 3752142.8, 497.6, 497.6, 2.0); (470485.6, 3752142.5, 496.3, 496.3, 2.0);
(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2, 497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7, 499.7, 499.7, 2.0);
(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2, 500.1, 500.1, 2.0);
(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9, 499.0, 499.0, 2.0);
(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);

(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
(470462.0, 3751310.6, 512.6, 512.6, 2.0); (470462.6, 3751296.6, 512.4, 512.4, 2.0);
(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
(470462.9, 3751254.3, 509.6, 512.0, 2.0); (470462.0, 3751240.7, 508.9, 508.9, 2.0);
(470463.2, 3751227.6, 509.4, 509.4, 2.0); (470756.4, 3751290.6, 507.7, 525.0, 2.0);
(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
(470940.8, 3751191.8, 512.1, 512.1, 2.0); (471000.6, 3750923.6, 523.8, 523.8, 2.0);
(471029.3, 3750923.6, 523.7, 523.7, 2.0); (471056.3, 3750923.9, 524.2, 542.0, 2.0);
(471077.9, 3750924.4, 524.8, 543.0, 2.0); (471097.6, 3750924.4, 525.7, 543.0, 2.0);
(471118.2, 3750925.0, 528.0, 543.0, 2.0); (471139.0, 3750927.4, 529.8, 543.0, 2.0);
(471160.1, 3750928.8, 530.8, 543.0, 2.0); (471181.1, 3750931.5, 532.3, 543.0, 2.0);
(471201.7, 3750930.9, 533.3, 543.0, 2.0); (471222.5, 3750931.5, 533.7, 543.0, 2.0);
(471244.1, 3750931.2, 534.8, 543.0, 2.0); (471264.4, 3750931.7, 535.7, 538.0, 2.0);
(471284.4, 3750931.7, 536.5, 536.5, 2.0); (471305.8, 3750931.7, 536.5, 536.5, 2.0);
(471324.7, 3750930.9, 535.8, 535.8, 2.0); (471343.0, 3750930.1, 534.9, 534.9, 2.0);
(471363.9, 3750929.0, 534.7, 534.7, 2.0); (471382.0, 3750928.8, 534.8, 534.8, 2.0);
(471400.9, 3750928.2, 535.0, 535.0, 2.0); (471421.1, 3750928.0, 535.4, 535.4, 2.0);
(471440.6, 3750928.1, 535.6, 535.6, 2.0); (471461.8, 3750927.4, 535.7, 535.7, 2.0);
(471479.8, 3750927.9, 535.9, 535.9, 2.0); (471499.7, 3750927.6, 536.2, 536.2, 2.0);
(471519.3, 3750928.8, 536.6, 549.0, 2.0); (471537.0, 3750929.6, 538.0, 549.0, 2.0);
(471556.8, 3750930.9, 539.6, 549.0, 2.0); (471580.7, 3750934.1, 541.7, 549.0, 2.0);
(471624.0, 3750940.2, 545.0, 549.0, 2.0); (471795.9, 3750950.1, 548.4, 548.4, 2.0);
(471796.3, 3750967.9, 547.3, 547.3, 2.0); (471796.7, 3750987.2, 545.3, 547.0, 2.0);
(471797.5, 3751006.8, 542.7, 549.0, 2.0); (471796.7, 3751025.3, 542.0, 547.0, 2.0);
(471795.9, 3751046.4, 541.1, 541.1, 2.0); (471796.7, 3751073.0, 540.1, 540.1, 2.0);
(471797.5, 3751143.8, 537.7, 537.7, 2.0); (471833.0, 3751143.8, 537.0, 537.0, 2.0);
(471867.4, 3751144.0, 534.9, 534.9, 2.0); (471891.0, 3751144.4, 532.9, 532.9, 2.0);
(471916.6, 3751144.2, 530.9, 530.9, 2.0); (471939.5, 3751144.2, 529.4, 529.4, 2.0);
(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0, 524.4, 533.0, 2.0);
(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1, 530.8, 530.8, 2.0);
(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5, 534.3, 534.3, 2.0);
(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9, 537.0, 537.0, 2.0);

(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3, 536.5, 536.5, 2.0);
(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7, 534.6, 534.6, 2.0);
(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7, 531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1, 528.2, 531.0, 2.0);
(472222.6, 3751348.7, 525.4, 536.0, 2.0); (472247.8, 3751349.5, 523.2, 536.0, 2.0);
(472269.7, 3751349.1, 520.9, 536.0, 2.0); (472290.4, 3751350.3, 520.7, 535.0, 2.0);
(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3, 520.6, 532.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
(472401.7, 3751351.1, 513.6, 533.0, 2.0); (472425.5, 3751351.8, 511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9, 509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3, 506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3, 506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0, 505.8, 505.8, 2.0);
(472601.3, 3751352.0, 505.3, 505.3, 2.0); (472606.8, 3751367.3, 504.3, 504.3, 2.0);
(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
(472608.9, 3751462.6, 504.4, 504.4, 2.0); (472609.5, 3751497.1, 505.0, 505.0, 2.0);
(472610.7, 3751553.8, 505.4, 505.4, 2.0); (472666.0, 3751554.0, 501.3, 501.3, 2.0);
(472690.4, 3751553.6, 499.8, 499.8, 2.0); (472713.5, 3751554.3, 499.2, 499.2, 2.0);
(472734.6, 3751554.0, 497.9, 497.9, 2.0); (472759.5, 3751554.0, 496.2, 496.2, 2.0);
(472781.8, 3751554.5, 494.9, 499.0, 2.0); (472849.8, 3751556.1, 495.4, 495.4, 2.0);
(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
(472922.6, 3751555.9, 493.8, 493.8, 2.0); (473092.4, 3751802.3, 486.1, 486.1, 2.0);
(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
(473295.1, 3752052.5, 478.7, 478.7, 2.0); (473356.8, 3752050.3, 476.8, 476.8, 2.0);
(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);

```
     ( 472765.6, 3752474.1,     477.2,     495.0,       2.0);         ( 470432.2, 3750483.9,
     532.6,     532.6,       2.0);
     ( 469244.1, 3754182.8,     471.3,     485.0,       2.0);         ( 469596.8, 3750785.6,
     493.4,     493.4,       2.0);
     ( 470466.5, 3750530.3,     535.0,     535.0,       2.0);         ( 469319.3, 3749244.5,
     500.0,     500.0,       2.0);
     ( 469229.6, 3749502.2,     503.4,     503.4,       2.0);         ( 468465.4, 3749582.3,
     490.5,     490.5,       2.0);
     ( 471438.4, 3750129.8,     539.2,     539.2,       2.0);         ( 471657.5, 3749918.8,
     535.4,     535.4,       2.0);
     ( 471732.9, 3749916.5,     534.7,     534.7,       2.0);         ( 471710.3, 3750132.8,
     537.0,     537.0,       2.0);
     ( 471273.9, 3750119.8,     540.5,     540.5,
     2.0);
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```
                                        *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                         (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
               INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                         (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
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                                      *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC                                                          Met
   Version:  16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
```

Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93	55.	10.1	288.1	2.0
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	1.00	3.05	55.	10.1	287.0	2.0
12	01	01	1	03	-21.5	0.221	-9.000	-9.000	-999.	250.	53.5	0.15	2.40	1.00	2.45	74.	10.1	284.2	2.0
12	01	01	1	04	-22.0	0.227	-9.000	-9.000	-999.	260.	56.8	0.15	2.40	1.00	2.52	77.	10.1	285.9	2.0
12	01	01	1	05	-20.0	0.206	-9.000	-9.000	-999.	225.	46.8	0.15	2.40	1.00	2.30	80.	10.1	285.4	2.0
12	01	01	1	06	-14.4	0.171	-9.000	-9.000	-999.	170.	32.1	0.15	2.40	1.00	1.93	79.	10.1	287.0	2.0
12	01	01	1	07	-14.9	0.174	-9.000	-9.000	-999.	174.	33.2	0.15	2.40	1.00	1.96	77.	10.1	284.2	2.0
12	01	01	1	08	-11.9	0.169	-9.000	-9.000	-999.	167.	36.1	0.15	2.40	0.53	1.89	77.	10.1	288.1	2.0
12	01	01	1	09	40.4	0.234	0.359	0.006	40.	272.	-28.1	0.15	2.40	0.31	2.10	81.	10.1	289.2	2.0
12	01	01	1	10	112.6	0.246	0.742	0.005	129.	293.	-11.8	0.15	2.40	0.24	1.99	101.	10.1	296.4	2.0
12	01	01	1	11	161.0	0.402	1.188	0.005	369.	611.	-35.6	0.15	2.40	0.21	3.68	78.	10.1	298.8	2.0
12	01	01	1	12	184.7	0.337	1.516	0.005	668.	473.	-18.4	0.15	2.40	0.20	2.89	68.	10.1	300.4	2.0
12	01	01	1	13	183.9	0.310	1.809	0.005	1139.	414.	-14.2	0.15	2.40	0.20	2.57	64.	10.1	302.5	2.0
12	01	01	1	14	156.6	0.374	1.852	0.005	1434.	549.	-29.5	0.15	2.40	0.22	3.37	63.	10.1	303.1	2.0
12	01	01	1	15	104.3	0.382	1.658	0.005	1546.	567.	-47.2	0.15	2.40	0.25	3.59	62.	10.1	302.5	2.0
12	01	01	1	16	31.8	0.374	1.123	0.005	1573.	550.	-145.8	0.15	2.40	0.34	3.76	69.	10.1	300.9	2.0
12	01	01	1	17	-23.3	0.276	-9.000	-9.000	-999.	354.	84.0	0.15	2.40	0.62	3.03	59.	10.1	297.5	2.0
12	01	01	1	18	-21.5	0.229	-9.000	-9.000	-999.	264.	57.8	0.15	2.40	1.00	2.54	54.	10.1	295.4	2.0
12	01	01	1	19	-19.3	0.204	-9.000	-9.000	-999.	221.	45.6	0.15	2.40	1.00	2.27	79.	10.1	292.0	2.0
12	01	01	1	20	-20.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.15	2.40	1.00	2.42	79.	10.1	292.5	2.0
12	01	01	1	21	-19.7	0.206	-9.000	-9.000	-999.	225.	46.9	0.15	2.40	1.00	2.30	95.	10.1	290.9	2.0
12	01	01	1	22	-17.6	0.190	-9.000	-9.000	-999.	199.	39.8	0.15	2.40	1.00	2.13	78.	10.1	290.4	2.0
12	01	01	1	23	-20.3	0.211	-9.000	-9.000	-999.	233.	49.0	0.15	2.40	1.00	2.35	52.	10.1	289.2	2.0
12	01	01	1	24	-16.4	0.183	-9.000	-9.000	-999.	189.	37.0	0.15	2.40	1.00	2.06	75.	10.1	288.8	2.0

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	32.97549	(13112916)	472482.23	3752398.04	18.90179	(14111116)
472477.97	3752183.12	21.97261	(12121716)	472148.10	3752531.53	61.17594	(13112916)
472052.12	3752531.22	73.16612	(13112916)	471975.52	3752531.22	55.50854	(13112916)
471896.06	3752530.90	55.25245	(13112916)	471840.76	3752529.94	54.64912	(13112916)
471816.60	3752527.08	52.53974	(13112916)	471736.82	3752557.91	58.46269	(13112916)
471696.59	3752558.87	63.69130	(13112916)	471627.29	3752556.22	62.18973	(13112916)
471584.60	3752556.76	54.01242	(13112916)	471560.01	3752556.22	49.64922	(13112916)
471534.35	3752554.87	47.08479	(13112916)	471514.89	3752554.87	46.68026	(13112916)
471486.79	3752555.68	48.31718	(13112916)	471465.72	3752555.41	49.67466	(13112916)
471442.21	3752554.98	49.73945	(13112916)	471419.71	3752552.46	49.17353	(13112916)
471394.22	3752552.91	47.42900	(13112916)	471363.44	3752552.46	45.53380	(13112916)
471332.68	3752553.31	45.10730	(13112916)	471307.62	3752552.94	46.66562	(13112916)
471284.05	3752552.70	49.25893	(13112916)	471261.98	3752552.70	51.62479	(13112916)
471241.90	3752552.70	53.07053	(13112916)	471223.15	3752552.86	53.58059	(13112916)
471205.90	3752552.86	53.30394	(13112916)	471173.21	3752552.37	50.62182	(13112916)
471135.70	3752552.53	42.22806	(13112916)	471093.22	3752551.54	40.97288	(14021809)
471059.37	3752551.70	41.94597	(14021809)	471020.54			

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      3752551.20       37.77380  (14021809)
      470981.05   3752563.65       29.02800  (14021809)                470980.39
      3752552.20       29.73542  (14021809)
      470980.06   3752535.61       30.83413  (14021809)                470979.89
      3752517.19       32.01342  (14021809)
      470980.06   3752499.76       34.21859  (13021809)                470980.22
      3752479.85       37.72016  (16120116)
      470980.39   3752459.44       41.07745  (13112716)                470980.22
      3752433.22       46.88398  (13112716)
      470980.06   3752404.02       49.23437  (15021709)                470927.12
      3752402.69       33.16162  (13112716)
      470907.87   3752402.69       29.97282  (13112716)                470887.30
      3752402.69       27.17524  (13112716)
      470869.71   3752402.03       25.27446  (13112716)                470849.63
      3752401.86       23.43913  (13112716)
      470829.39   3752402.19       21.86209  (13112716)                470811.63
      3752402.19       20.65274  (13112716)
      470791.55   3752402.53       19.44121  (13112716)                470773.63
      3752401.86       18.47833  (13112716)
      470749.24   3752402.19       17.31254  (13112716)                470727.72
      3752391.74       16.44002  (13112716)
      470733.04   3752338.97       16.56359  (13112716)                470733.70
      3752320.55       16.50721  (13112716)
      470734.20   3752291.01       16.39814  (13112716)                470733.20
      3752265.78       16.28655  (15021709)
      470732.87   3752218.81       16.50318  (15021709)                470732.54
      3752182.14       16.60139  (15021709)
      470732.37   3752145.29       16.72659  (15021709)                470692.38
      3752144.80       15.41278  (15021709)
      470670.14   3752144.46       14.79032  (15021709)                470651.72
      3752144.30       14.32029  (15021709)
      470633.46   3752144.13       13.89352  (15021709)                470615.54
      3752143.97       13.50598  (15021709)
      470595.95   3752143.30       13.11611  (15021709)                470577.03
      3752143.47       12.76126  (15021709)
      470553.63   3752143.47       12.35628  (15021709)                470528.57
      3752142.64       11.96435  (15021709)
      470507.99   3752142.80       11.66228  (15021709)                470485.59
      3752142.47       11.35788  (15021709)
      470471.60   3752131.63       11.24282  (15021709)                470471.60
      3752109.21       11.38364  (15021709)
      470471.32   3752085.22       11.54216  (15021709)                470471.46
      3752037.68       11.91421  (15021709)
      470471.74   3752013.00       12.13850  (15021709)                470470.89
      3751987.18       12.37249  (15021709)
      470470.89   3751965.74       12.58159  (15021709)                470470.75
      3751944.44       12.78363  (15021709)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        09:55:11

                     PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                VOL3        , VOL4        , VOL5        ,
                    VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                    VOL11       , VOL12       , VOL13       ,
                    VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                    VOL19       , VOL20       , VOL21       ,
                    VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                    VOL27       , VOL28       ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	12.96385	(15021709)	470470.47	3751905.93	13.11117	(15021709)
470470.89	3751884.06	13.26933	(15021709)	470470.61	3751864.03	13.36942	(15021709)
470470.33	3751844.00	13.43380	(15021709)	470470.19	3751824.53	13.46254	(15021709)
470470.33	3751805.77	13.46272	(15021709)	470470.33	3751788.00	13.43310	(15021709)
470470.33	3751761.19	13.35148	(15021709)	470471.03	3751741.87	13.27674	(15021709)
470470.05	3751722.82	13.15367	(15021709)	470470.19	3751703.36	13.03361	(15021709)
470470.19	3751683.75	12.89868	(15021709)	470470.33	3751664.28	12.83298	(14123016)
470470.33	3751642.41	12.92190	(14123016)	470470.47	3751621.82	12.97522	(14123016)
470470.19	3751599.81	12.99407	(14123016)	470470.61	3751578.79	12.99442	(14123016)
470469.62	3751555.94	12.90733	(14123016)	470470.05	3751512.49	12.70028	(14123016)
470468.64	3751414.59	11.94227	(14123016)	470469.76	3751385.25	11.92141	(14123016)
470468.65	3751358.95	11.68785	(14123016)	470462.93	3751325.56	11.29873	(12121315)
470461.98	3751310.62	11.26328	(12121315)	470462.61	3751296.63	11.25698	(12121315)
470462.61	3751283.28	11.23902	(12121315)	470462.61	3751269.92	11.21888	(12121315)
470462.93	3751254.35	11.19522	(12121315)	470461.98	3751240.67	11.14583	(12121315)
470463.25	3751227.64	11.12420	(12121315)	470756.39	3751290.59	18.36662	(12121315)
470797.72	3751268.33	19.37724	(12121315)	470891.19	3751226.38	22.44425	(12012316)
470940.78	3751191.82	23.53915	(14020616)	471000.61	3750923.63	21.23539	(12012316)
471029.26	3750923.63	21.50376	(12012316)	471056.29	3750923.90	21.46091	(12012316)
471077.91	3750924.44	21.23130	(12012316)	471097.64	3750924.44	20.82997	(12012316)
471118.18	3750924.98	20.88418	(16112816)	471138.99	3750927.42	22.78594	(16112816)
471160.07	3750928.77	24.91776	(16112816)	471181.15	3750931.47	28.35712	(12121316)
471201.69	3750930.93	32.80033	(12121316)	471222.50	3750931.47	32.22362	(12121316)
471244.13	3750931.20	34.41463	(16112816)	471264.40	3750931.74	36.32186	(16112816)
471284.40	3750931.74	37.61388	(16112816)	471305.75	3750931.74	38.26674	(16112816)
471324.67	3750930.93	38.05083	(16112816)	471343.05	3750930.12	37.26050	(16112816)
471363.86	3750929.04	35.84290	(16112816)	471381.96	3750928.77	34.40204	(16112816)
471400.88	3750928.23	32.83176	(16112816)	471421.15	3750927.96	31.33831	(16112816)
471440.59	3750928.11	30.29952	(16112816)	471461.83			

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	26.03421	(12121716)	472000.19	3751199.12	28.69381	(12121716)
471999.80	3751230.56	30.13465	(12121716)	472000.38	3751251.46	30.74993	(12121716)
472000.19	3751281.15	31.60365	(12121716)	472001.95	3751347.94	34.52300	(12121716)
472036.90	3751348.52	32.76084	(12121716)	472063.07	3751349.31	31.56137	(12121716)
472084.56	3751348.33	30.61865	(12121716)	472104.87	3751348.72	29.85195	(12121716)
472127.33	3751348.52	29.00104	(12121716)	472150.76	3751349.70	28.20568	(12121716)
472171.47	3751349.50	27.44709	(12121716)	472194.12	3751349.11	26.61744	(12121716)
472222.63	3751348.72	25.71694	(12121716)	472247.83			

3751349.50 24.96324 (12121716)
472269.70 3751349.11 24.31143 (12121716) 472290.40
3751350.28 23.78173 (12121716)
472313.64 3751350.48 23.18056 (12121716) 472333.76
3751351.26 22.69473 (12121716)
472354.85 3751351.26 22.15779 (12121716) 472377.70
3751351.06 21.57765 (12121716)
472401.72 3751351.06 20.99964 (12121716) 472425.55
3751351.84 20.48091 (12121716)
472445.67 3751350.67 20.03673 (12121716) 472463.24
3751350.87 19.66632 (12121716)
472484.14 3751350.87 19.23029 (12121716) 472503.87
3751351.26 18.85990 (12121716)
472523.79 3751351.26 18.51332 (12121716) 472543.32
3751351.26 18.18971 (12121716)
472563.24 3751352.24 17.87617 (12121716) 472582.57
3751352.04 17.56397 (12121716)
472601.32 3751352.04 17.27420 (12121716) 472606.79
3751367.27 17.40803 (12121716)
472607.57 3751396.37 17.85668 (12121716) 472608.55
3751432.11 18.49189 (12121716)
472608.94 3751462.58 19.12942 (12121716) 472609.52
3751497.15 20.12142 (12121716)
472610.70 3751553.78 22.71772 (12121716) 472665.97
3751553.98 22.33639 (12121716)
472690.38 3751553.59 22.17873 (12121716) 472713.50
3751554.27 22.12365 (12121716)
472734.64 3751554.04 21.99482 (12121716) 472759.46
3751554.04 21.85749 (12121716)
472781.75 3751554.50 21.77574 (12121716) 472849.76
3751556.11 21.66294 (12121716)
472871.82 3751556.11 21.54819 (12121716) 472895.25
3751555.65 21.37933 (12121716)
472922.60 3751555.88 21.22845 (12121716) 473092.41
3751802.31 38.13108 (12121716)
473204.80 3751856.81 26.10146 (12121716) 472991.21
3752083.31 27.78209 (13112916)
473295.12 3752052.49 13.75288 (14111116) 473356.76
3752050.34 11.74222 (14111116)
473495.10 3751996.58 11.65268 (13112016) 473486.50
3751917.74 14.13800 (13112016)
473392.60 3752058.22 10.89431 (14111116) 473464.28
3752082.59 9.61735 (14111116)
473550.29 3752087.61 8.44194 (13121916) 473584.69
3752089.76 8.17558 (13121916)
472765.59 3752474.09 11.72626 (14111116) 470432.16
3750483.93 19.28783 (12121316)
469244.06 3754182.82 4.04413 (14020709) 469596.75
3750785.65 6.10619 (14101709)
470466.55 3750530.27 21.33662 (12121316) 469319.29
3749244.53 4.88179 (14121709)
469229.64 3749502.19 4.66587 (15122209) 468465.38
3749582.33 4.77501 (12011709)
471438.37 3750129.76 14.21697 (15122816) 471657.54
3749918.78 10.53434 (15122816)
471732.91 3749916.52 9.67443 (15122816) 471710.30
3750132.80 11.72941 (15122816)
471273.89 3750119.77 12.12303
(15122816)

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	7.40968	(13100916)	472482.23	3752398.04	7.27449	(13112116)
472477.97	3752183.12	9.55644	(12121716)	472148.10	3752531.53	12.37392	(13100916)
472052.12	3752531.22	14.42118	(13100916)	471975.52	3752531.22	13.86070	(13100916)
471896.06	3752530.90	13.99955	(13100916)	471840.76	3752529.94	13.87247	(13100916)
471816.60	3752527.08	13.94966	(13121916)	471736.82	3752557.91	13.75798	(13100916)
471696.59	3752558.87	13.93043	(13100916)	471627.29	3752556.22	14.63345	(13121916)
471584.60	3752556.76	15.10300	(13121916)	471560.01	3752556.22	15.10004	(13121916)
471534.35	3752554.87	15.12718	(16010616)	471514.89	3752554.87	15.10156	(16010616)
471486.79	3752555.68	15.08705	(16010616)	471465.72	3752555.41	14.93518	(16010616)
471442.21	3752554.98	14.53487	(16010616)	471419.71	3752552.46	14.40531	(16010616)
471394.22	3752552.91	14.39239	(16010616)	471363.44	3752552.46	14.64941	(16010616)
471332.68	3752553.31	14.80942	(16010616)	471307.62	3752552.94	14.84975	(16010616)
471284.05	3752552.70	14.73179	(16010616)	471261.98	3752552.70	14.60836	(16010616)
471241.90	3752552.70	14.56002	(16010616)	471223.15	3752552.86	14.60275	(16010616)
471205.90	3752552.86	14.72710	(16010616)	471173.21	3752552.37	15.19609	(16010616)
471135.70	3752552.53	15.93908	(16010616)	471093.22	3752551.54	16.95200	(16010616)
471059.37	3752551.70	17.01153	(16010616)	471020.54	3752551.20	16.07625	(16010616)
470981.05	3752563.65	13.85701	(16010516)	470980.39	3752552.20	14.68706	(16010516)
470980.06	3752535.61	15.97030	(16010516)	470979.89	3752517.19	17.83605	(14121216)
470980.06	3752499.76	19.94182	(14121216)	470980.22	3752479.85	22.23638	(14121216)
470980.39	3752459.44	24.12626	(14121216)	470980.22	3752433.22	24.86821	(14121216)
470980.06	3752404.02	25.92749	(12121316)	470927.12	3752402.69	15.61703	(14121216)
470907.87	3752402.69	14.01035	(14121216)	470887.30			

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470869.71	3752402.69	12.64562	(14121216)				
470849.63	3752402.03	11.76053	(14121216)				
470829.39	3752401.86	10.90805	(14121216)				
470811.63	3752402.19	10.17590	(14121216)				
470791.55	3752402.19	9.61485	(14121216)				
470773.63	3752402.53	9.05249	(14121216)				
470749.24	3752401.86	8.60579	(14121216)				
470727.72	3752402.19	8.06747	(14121216)				
470733.04	3752391.74	7.68282	(14121216)				
470733.70	3752338.97	7.95481	(14121216)				
470734.20	3752320.55	8.02370	(14121216)				
470733.20	3752291.01	8.12573	(14121216)				
470732.87	3752265.78	8.18243	(14121216)				
470732.54	3752218.81	8.43283	(12121316)				
470732.37	3752182.14	8.75149	(12121316)				
470692.38	3752145.29	9.09100	(12121316)				
470670.14	3752144.80	8.15242	(12121316)				
470651.72	3752144.46	7.75047	(14121216)				
470633.46	3752144.30	7.44969	(14121216)				
470615.54	3752144.13	7.15315	(14121216)				
470595.95	3752143.97	6.87055	(14121216)				
470577.03	3752143.30	6.57280	(14121216)				
470553.63	3752143.47	6.29840	(14121216)				
470528.57	3752143.47	5.97395	(14121216)				
470507.99	3752142.64	5.66251	(12121316)				
470485.59	3752142.80	5.47363	(15112716)				
470471.60	3752142.47	5.28339	(15112716)				
470471.60	3752131.63	5.21536	(15112716)				
470471.46	3752109.21	5.31286	(15112716)				
470471.32	3752085.22	5.41817	(15112716)				
470471.74	3752037.68	5.64800	(12121316)				
470470.89	3752013.00	5.76562	(12121316)				
470470.89	3751987.18	5.87277	(15112716)				
470470.75	3751965.74	5.96435	(15112716)				
470470.89	3751944.44	6.04542	(15112716)				
470470.47	3751924.27	6.11085	(15112716)				
470470.61	3751905.93	6.15959	(15112716)				
470470.61	3751884.06	6.21465	(15112716)				

3751864.03 6.24341 (15112716)
470470.33 3751844.00 6.27444 (12121316) 470470.19
3751824.53 6.30515 (12121316)
470470.33 3751805.77 6.33448 (12121316) 470470.33
3751788.00 6.35599 (12121316)
470470.33 3751761.19 6.39592 (12121316) 470471.03
3751741.87 6.42371 (12121316)
470470.05 3751722.82 6.41624 (12121316) 470470.19
3751703.36 6.41007 (12121316)
470470.19 3751683.75 6.38798 (12121316) 470470.33
3751664.28 6.35841 (12121316)
470470.33 3751642.41 6.30940 (12121316) 470470.47
3751621.82 6.25279 (12121316)
470470.19 3751599.81 6.17514 (12121316) 470470.61
3751578.79 6.10244 (12121316)
470469.62 3751555.94 6.05336 (16122916) 470470.05
3751512.49 6.02927 (16122916)
470468.64 3751414.59 5.94000 (14123016) 470469.76
3751385.25 5.97515 (14123016)
470468.65 3751358.95 5.94382 (14123016) 470462.93
3751325.56 5.83541 (14123016)
470461.98 3751310.62 5.80272 (14123016) 470462.61
3751296.63 5.78699 (14123016)
470462.61 3751283.28 5.76352 (14123016) 470462.61
3751269.92 5.73827 (14123016)
470462.93 3751254.35 5.73042 (16122016) 470461.98
3751240.67 5.71105 (16122016)
470463.25 3751227.64 5.70597 (16122016) 470756.39
3751290.59 10.35954 (14123016)
470797.72 3751268.33 10.99161 (14123016) 470891.19
3751226.38 12.45177 (14123016)
470940.78 3751191.82 13.11828 (14123016) 471000.61
3750923.63 8.65930 (13112216)
471029.26 3750923.63 9.10102 (13112216) 471056.29
3750923.90 9.48067 (13112216)
471077.91 3750924.44 9.72815 (13112216) 471097.64
3750924.44 9.87479 (13112216)
471118.18 3750924.98 10.00167 (13112216) 471138.99
3750927.42 10.10452 (13112216)
471160.07 3750928.77 10.06035 (13112216) 471181.15
3750931.47 10.05596 (13112216)
471201.69 3750930.93 9.99831 (15121516) 471222.50
3750931.47 9.99081 (15121516)
471244.13 3750931.20 9.84689 (15121516) 471264.40
3750931.74 9.65016 (15121516)
471284.40 3750931.74 9.41040 (12012416) 471305.75
3750931.74 9.24941 (12012416)
471324.67 3750930.93 9.04404 (14110316) 471343.05
3750930.12 8.98826 (14110316)
471363.86 3750929.04 8.87060 (14110316) 471381.96
3750928.77 8.75160 (14110316)
471400.88 3750928.23 8.60235 (14110316) 471421.15
3750927.96 8.43301 (14110316)
471440.59 3750928.11 8.27509 (14110316) 471461.83
3750927.45 8.08167 (14110316)
471479.76 3750927.95 7.92403 (14110316) 471499.68
3750927.62 7.71959 (14110316)
471519.26 3750928.78 7.52846 (14110316) 471537.02
3750929.61 7.59068 (15122816)
471556.77 3750930.94 7.71605 (15122816) 471580.68
3750934.09 7.93558 (15122816)
471624.00 3750940.23 8.01646 (15122816) 471795.90
3750950.11 7.01530 (15122816)
471796.29 3750967.88 7.26821 (15122816) 471796.69
3750987.22 7.55657 (15122816)
471797.47 3751006.75 7.84569 (15122816) 471796.69

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	7.24222	(15122816)	472000.19	3751199.12	7.63860	(15122816)
471999.80	3751230.56	7.99799	(15122816)	472000.38	3751251.46	8.35398	(13112016)
472000.19	3751281.15	8.97093	(13112016)	472001.95	3751347.94	10.40076	(13112016)
472036.90	3751348.52	9.70161	(13112016)	472063.07	3751349.31	9.23751	(13112016)
472084.56	3751348.33	8.88050	(13112016)	472104.87	3751348.72	8.60765	(13112016)
472127.33	3751348.52	8.32405	(13112016)	472150.76	3751349.70	8.06458	(13112016)
472171.47	3751349.50	7.82468	(13112016)	472194.12	3751349.11	7.59567	(13112016)
472222.63	3751348.72	7.32752	(13112016)	472247.83	3751349.50	7.11826	(13112016)
472269.70	3751349.11	6.93768	(13112016)	472290.40	3751350.28	6.78030	(13112016)
472313.64	3751350.48	6.60083	(13112016)	472333.76	3751351.26	6.46483	(13112016)
472354.85	3751351.26	6.33526	(13112016)	472377.70	3751351.06	6.20268	(13112016)
472401.72	3751351.06	6.07211	(13112016)	472425.55	3751351.84	5.95302	(13112016)
472445.67	3751350.67	5.83584	(13112016)	472463.24	3751350.87	5.75447	(13112016)
472484.14	3751350.87	5.65458	(13112016)	472503.87			

3751351.26 5.56254 (13112016)
472523.79 3751351.26 5.46592 (13112016) 472543.32
3751351.26 5.37249 (13112016)
472563.24 3751352.24 5.28902 (13112016) 472582.57
3751352.04 5.20116 (13112016)
472601.32 3751352.04 5.11963 (13112016) 472606.79
3751367.27 5.21491 (13112016)
472607.57 3751396.37 5.44262 (13112016) 472608.55
3751432.11 5.74369 (13112016)
472608.94 3751462.58 6.04365 (13112016) 472609.52
3751497.15 6.42411 (13112016)
472610.70 3751553.78 7.22847 (13112016) 472665.97
3751553.98 6.94272 (13112016)
472690.38 3751553.59 6.81116 (13112016) 472713.50
3751554.27 6.68808 (13112016)
472734.64 3751554.04 6.57264 (13112016) 472759.46
3751554.04 6.44124 (13112016)
472781.75 3751554.50 6.32424 (13112016) 472849.76
3751556.11 6.06854 (12113016)
472871.82 3751556.11 5.99474 (12113016) 472895.25
3751555.65 5.91167 (12113016)
472922.60 3751555.88 5.82633 (12113016) 473092.41
3751802.31 10.62996 (12042316)
473204.80 3751856.81 9.00515 (12042316) 472991.21
3752083.31 9.42380 (14111116)
473295.12 3752052.49 5.91878 (15042416) 473356.76
3752050.34 5.38405 (15042416)
473495.10 3751996.58 4.60483 (12050116) 473486.50
3751917.74 4.97315 (12050116)
473392.60 3752058.22 5.04454 (15042416) 473464.28
3752082.59 4.43305 (15042416)
473550.29 3752087.61 3.98083 (15042416) 473584.69
3752089.76 3.82375 (15042416)
472765.59 3752474.09 4.87558 (13112116) 470432.16
3750483.93 3.98505 (12121316)
469244.06 3754182.82 0.94947 (16010516) 469596.75
3750785.65 3.45998 (13012516)
470466.55 3750530.27 4.31789 (12121316) 469319.29
3749244.53 1.35156 (13012516)
469229.64 3749502.19 1.85193 (13012516) 468465.38
3749582.33 2.24268 (13012516)
471438.37 3750129.76 2.44741 (12012416) 471657.54
3749918.78 1.84904 (15122816)
471732.91 3749916.52 1.78616 (15122816) 471710.30
3750132.80 2.23137 (15122816)
471273.89 3750119.77 2.74760
(12012416)

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS      73.16612  ON 13112916: AT (  472052.12,  3752531.22,
499.36,   512.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        09:55:11

                      PAGE  66
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                                  *** THE SUMMARY OF HIGHEST  8-HR RESULTS ***


                                      ** CONC OF CO       IN
                                      MICROGRAMS/M**3                          **


                                                        DATE
                                                                                    NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS      25.92749  ON 12121316: AT (  470980.06,  3752404.02,
506.00,   506.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        09:55:11

                      PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1638 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of         1039 Calm Hours Identified

 A Total of          599 Missing Hours Identified (  1.37 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***
```

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   ********   WARNING MESSAGES   ********
ME W186     881       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     881       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons NO2\14064 Cons
NO2.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons NO2.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
   LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
   LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
   LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
   LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
   LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL2         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL3         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL4         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL5         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL6         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL7         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL8         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL9         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL10        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL11        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL12        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL13        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL14        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL15        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL16        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL17        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL18        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL19        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL20        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL21        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL22        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL23        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL24        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL25        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL26        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL27        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL28        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL29        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL30        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL31        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL32        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL33        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL34        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL35        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL36        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL37        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL38        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL39        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL40        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL41        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL42        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL43        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL44        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL45        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL46        0.0152280251     5.000    43.702     1.400
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   SRCPARAM VOL47        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL48        0.0152280251     5.000    43.702     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
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   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
```

```
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14064 Cons NO2.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 CONS NO2.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Cons NO2.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons NO2\14064 Cons
NO2.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons NO2.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
   LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
   LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
   LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
   LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
   LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL2         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL3         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL4         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL5         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL6         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL7         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL8         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL9         0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL10        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL11        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL12        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL13        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL14        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL15        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL16        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL17        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL18        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL19        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL20        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL21        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL22        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL23        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL24        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL25        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL26        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL27        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL28        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL29        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL30        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL31        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL32        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL33        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL34        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL35        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL36        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL37        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL38        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL39        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL40        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL41        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL42        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL43        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL44        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL45        0.0152280251     5.000    43.702     1.400
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   SRCPARAM VOL46        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL47        0.0152280251     5.000    43.702     1.400
   SRCPARAM VOL48        0.0152280251     5.000    43.702     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14064 Cons NO2.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 CONS NO2.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Cons NO2.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
                ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     881       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     881       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:11:07
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:
* Model Uses Regulatory DEFAULT Options
* Model Is Setup For Calculation of Average CONCentration Values.
* NO GAS DEPOSITION Data Provided.
* NO PARTICLE DEPOSITION Data Provided.
* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses URBAN Dispersion Algorithm for the SBL for 48 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
* Urban Roughness Length of 1.0 Meter Used.
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* CCVR_Sub - Meteorological data includes CCVR substitutions
* TEMP_Sub - Meteorological data includes TEMP substitutions
* Model Accepts FLAGPOLE Receptor . Heights.
* The User Specified a Pollutant Type of: NOX

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes: 48 Source(s); 1 Source Group(s); and 233 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 48 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 245.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate
Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File: 14064 Cons
NO2.err
**File for Summary of Results: 14064 Cons
NO2.sum

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	SCALAR VARY BY
VOL1	0	0.15228E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40	YES HRDOW
VOL2	0	0.15228E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40	YES HRDOW
VOL3	0	0.15228E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40	YES HRDOW
VOL4	0	0.15228E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40	YES HRDOW
VOL5	0	0.15228E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40	YES HRDOW
VOL6	0	0.15228E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40	YES HRDOW
VOL7	0	0.15228E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40	YES HRDOW
VOL8	0	0.15228E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40	YES HRDOW
VOL9	0	0.15228E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40	YES HRDOW
VOL10	0	0.15228E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40	YES HRDOW
VOL11	0	0.15228E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40	YES HRDOW
VOL12	0	0.15228E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40	YES HRDOW
VOL13	0	0.15228E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40	YES HRDOW
VOL14	0	0.15228E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40	YES HRDOW
VOL15	0	0.15228E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40	YES HRDOW
VOL16	0	0.15228E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40	YES HRDOW
VOL17	0	0.15228E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40	YES HRDOW
VOL18	0	0.15228E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40	YES HRDOW
VOL19	0	0.15228E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40	

```
 YES   HRDOW
 VOL20            0   0.15228E-01  471845.1 3751780.0   538.8     5.00    43.70     1.40
 YES   HRDOW
 VOL21            0   0.15228E-01  471657.2 3751803.8   536.0     5.00    43.70     1.40
 YES   HRDOW
 VOL22            0   0.15228E-01  471468.5 3751806.2   528.3     5.00    43.70     1.40
 YES   HRDOW
 VOL23            0   0.15228E-01  471280.5 3751807.0   525.0     5.00    43.70     1.40
 YES   HRDOW
 VOL24            0   0.15228E-01  471093.4 3751841.9   515.6     5.00    43.70     1.40
 YES   HRDOW
 VOL25            0   0.15228E-01  470978.4 3751841.9   518.1     5.00    43.70     1.40
 YES   HRDOW
 VOL26            0   0.15228E-01  471014.1 3751654.8   520.4     5.00    43.70     1.40
 YES   HRDOW
 VOL27            0   0.15228E-01  471201.2 3751654.8   525.1     5.00    43.70     1.40
 YES   HRDOW
 VOL28            0   0.15228E-01  471389.2 3751619.1   534.9     5.00    43.70     1.40
 YES   HRDOW
 VOL29            0   0.15228E-01  471577.9 3751616.7   529.0     5.00    43.70     1.40
 YES   HRDOW
 VOL30            0   0.15228E-01  471724.6 3751620.7   533.8     5.00    43.70     1.40
 YES   HRDOW
 VOL31            0   0.15228E-01  471941.0 3751865.7   534.6     5.00    43.70     1.40
 YES   HRDOW
 VOL32            0   0.15228E-01  471795.2 3751684.9   537.3     5.00    43.70     1.40
 YES   HRDOW
 VOL33            0   0.15228E-01  471577.9 3751434.3   531.1     5.00    43.70     1.40
 YES   HRDOW
 VOL34            0   0.15228E-01  471390.0 3751431.9   537.3     5.00    43.70     1.40
 YES   HRDOW
 VOL35            0   0.15228E-01  471202.0 3751467.6   526.8     5.00    43.70     1.40
 YES   HRDOW
 VOL36            0   0.15228E-01  471065.7 3751504.9   522.0     5.00    43.70     1.40
 YES   HRDOW
 VOL37            0   0.15228E-01  471656.4 3751514.4   529.5     5.00    43.70     1.40
 YES   HRDOW
 VOL38            0   0.15228E-01  471522.4 3751324.1   529.0     5.00    43.70     1.40
 YES   HRDOW
 VOL39            0   0.15228E-01  471332.9 3751322.5   529.5     5.00    43.70     1.40
 YES   HRDOW
 VOL40            0   0.15228E-01  471282.9 3751321.7   528.2     5.00    43.70     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       10:11:07

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS)  (METERS)  (METERS)  (METERS)  (METERS)
    (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - -

 VOL41            0   0.15228E-01  471233.8 3751388.3   528.5     5.00    43.70     1.40
 YES   HRDOW
 VOL42            0   0.15228E-01  472135.6 3751845.1   525.8     5.00    43.70     1.40
```

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 YES   HRDOW
 VOL43            0   0.15228E-01  472323.4 3751843.5   510.5     5.00    43.70     1.40
 YES   HRDOW
 VOL44            0   0.15228E-01  472512.5 3751852.3   501.4     5.00    43.70     1.40
 YES   HRDOW
 VOL45            0   0.15228E-01  472698.0 3751875.5   491.4     5.00    43.70     1.40
 YES   HRDOW
 VOL46            0   0.15228E-01  472880.8 3751928.7   487.9     5.00    43.70     1.40
 YES   HRDOW
 VOL47            0   0.15228E-01  472608.0 3752044.6   498.5     5.00    43.70     1.40
 YES   HRDOW
 VOL48            0   0.15228E-01  471084.5 3752407.2   506.8     5.00    43.70     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
  VOL7        , VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
             VOL47       , VOL48       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                 SOURCE IDs
  --------   ---------                                 ----------


              2189641.   VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
              VOL6        , VOL7        ,
 VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,
```

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            VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
            VOL23       , VOL24       ,

            VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
            VOL31       , VOL32       ,

            VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
            VOL39       , VOL40       ,

            VOL41       , VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
            VOL47       , VOL48       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL1         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL2         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        10:11:07

                        PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL3         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        10:11:07

                        PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
```

```
                   (HRDOW) *

 SOURCE ID = VOL4         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL5         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

```
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        10:11:07

                      PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL8         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        10:11:07

                      PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL9         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL10        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL11        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

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 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                       PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL12        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                       PAGE  18
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL14 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                     PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL19        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                     PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
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```
 SOURCE ID = VOL20        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL21        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6			

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL26        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                      PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL27        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL30 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22					

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                     PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL33        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                     PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL34        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
```

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR

```
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL38 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/07/22
*** AERMET - VERSION 16216 ***
*** *** 10:11:07

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL39 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

```
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                     ***        10:11:07

                        PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL40        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                     ***        10:11:07

                        PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL41        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

DAY OF WEEK = SUNDAY

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

DAY OF WEEK = SATURDAY

DAY OF WEEK = SUNDAY

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                     PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL44        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:11:07

                     PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
```

```
 SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                     ***        10:11:07

                        PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL46        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
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 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        10:11:07

                     PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL47        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        10:11:07

                     PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL48        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0, 499.3, 499.3, 2.0);
(472478.0, 3752183.1, 505.1, 505.1, 2.0); (472148.1, 3752531.5, 495.2, 502.0, 2.0);
(472052.1, 3752531.2, 499.4, 512.0, 2.0); (471975.5, 3752531.2, 500.5, 514.0, 2.0);
(471896.1, 3752530.9, 503.4, 513.0, 2.0); (471840.8, 3752529.9, 503.4, 513.0, 2.0);
(471816.6, 3752527.1, 500.6, 513.0, 2.0); (471736.8, 3752557.9, 501.5, 501.5, 2.0);
(471696.6, 3752558.9, 500.0, 500.0, 2.0); (471627.3, 3752556.2, 501.9, 512.0, 2.0);
(471584.6, 3752556.8, 504.5, 507.0, 2.0); (471560.0, 3752556.2, 504.6, 507.0, 2.0);
(471534.3, 3752554.9, 503.2, 509.0, 2.0); (471514.9, 3752554.9, 502.2, 519.0, 2.0);
(471486.8, 3752555.7, 503.1, 503.1, 2.0); (471465.7, 3752555.4, 503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5, 500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5, 503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9, 506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7, 505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9, 505.9, 505.9, 2.0);
(471205.9, 3752552.9, 506.2, 506.2, 2.0); (471173.2, 3752552.4, 506.5, 506.5, 2.0);
(471135.7, 3752552.5, 506.1, 506.1, 2.0); (471093.2, 3752551.5, 505.4, 505.4, 2.0);
(471059.4, 3752551.7, 504.7, 504.7, 2.0); (471020.5, 3752551.2, 503.1, 503.1, 2.0);
(470981.0, 3752563.6, 502.1, 502.1, 2.0); (470980.4, 3752552.2, 502.5, 502.5, 2.0);
(470980.1, 3752535.6, 503.0, 503.0, 2.0); (470979.9, 3752517.2, 503.7, 503.7, 2.0);
(470980.1, 3752499.8, 504.0, 504.0, 2.0); (470980.2, 3752479.8, 504.0, 504.0, 2.0);
(470980.4, 3752459.4, 504.6, 504.6, 2.0); (470980.2, 3752433.2, 505.4, 505.4, 2.0);
(470980.1, 3752404.0, 506.0, 506.0, 2.0); (470927.1, 3752402.7, 504.9, 504.9, 2.0);
(470907.9, 3752402.7, 503.1, 503.1, 2.0); (470887.3, 3752402.7, 500.9, 505.0, 2.0);
(470869.7, 3752402.0, 500.7, 500.7, 2.0); (470849.6, 3752401.9, 500.3, 500.3, 2.0);

(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2, 499.7, 499.7, 2.0);
(470791.5, 3752402.5, 499.2, 499.2, 2.0); (470773.6, 3752401.9, 498.6, 498.6, 2.0);
(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7, 497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5, 500.2, 500.2, 2.0);
(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8, 500.8, 500.8, 2.0);
(470732.9, 3752218.8, 501.2, 501.2, 2.0); (470732.5, 3752182.1, 501.8, 501.8, 2.0);
(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8, 502.5, 502.5, 2.0);
(470670.1, 3752144.5, 502.1, 502.1, 2.0); (470651.7, 3752144.3, 502.0, 502.0, 2.0);
(470633.5, 3752144.1, 501.5, 501.5, 2.0); (470615.5, 3752144.0, 500.9, 500.9, 2.0);
(470596.0, 3752143.3, 500.2, 500.2, 2.0); (470577.0, 3752143.5, 500.0, 500.0, 2.0);
(470553.6, 3752143.5, 499.7, 499.7, 2.0); (470528.6, 3752142.6, 498.8, 498.8, 2.0);
(470508.0, 3752142.8, 497.6, 497.6, 2.0); (470485.6, 3752142.5, 496.3, 496.3, 2.0);
(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2, 497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7, 499.7, 499.7, 2.0);
(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2, 500.1, 500.1, 2.0);
(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9, 499.0, 499.0, 2.0);
(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);
(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);

(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
(470462.0, 3751310.6, 512.6, 512.6, 2.0); (470462.6, 3751296.6, 512.4, 512.4, 2.0);
(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
(470462.9, 3751254.3, 509.6, 512.0, 2.0); (470462.0, 3751240.7, 508.9, 508.9, 2.0);
(470463.2, 3751227.6, 509.4, 509.4, 2.0); (470756.4, 3751290.6, 507.7, 525.0, 2.0);
(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
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(471363.9, 3750929.0, 534.7, 534.7, 2.0); (471382.0, 3750928.8, 534.8, 534.8, 2.0);
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(471556.8, 3750930.9, 539.6, 549.0, 2.0); (471580.7, 3750934.1, 541.7, 549.0, 2.0);
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(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0, 524.4, 533.0, 2.0);
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(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7, 534.6, 534.6, 2.0);
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(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3, 520.6, 532.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
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(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
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(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
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(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
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    500.0,     500.0,       2.0);
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    490.5,     490.5,       2.0);
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    535.4,     535.4,       2.0);
    ( 471732.9, 3749916.5,     534.7,     534.7,       2.0);         ( 471710.3, 3750132.8,
    537.0,     537.0,       2.0);
    ( 471273.9, 3750119.8,     540.5,     540.5,
    2.0);
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       10:11:07

                      PAGE  57
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                 (1=YES; 0=NO)

             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1   1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1   1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1   1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1   1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1   1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1   1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
             1   1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1

                 NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
                 INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                              (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       10:11:07

                      PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                      *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC                                                             Met
   Version:  16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE
```

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93	55.	10.1	288.1	2.0
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	1.00	3.05	55.	10.1	287.0	2.0
12	01	01	1	03	-21.5	0.221	-9.000	-9.000	-999.	250.	53.5	0.15	2.40	1.00	2.45	74.	10.1	284.2	2.0
12	01	01	1	04	-22.0	0.227	-9.000	-9.000	-999.	260.	56.8	0.15	2.40	1.00	2.52	77.	10.1	285.9	2.0
12	01	01	1	05	-20.0	0.206	-9.000	-9.000	-999.	225.	46.8	0.15	2.40	1.00	2.30	80.	10.1	285.4	2.0
12	01	01	1	06	-14.4	0.171	-9.000	-9.000	-999.	170.	32.1	0.15	2.40	1.00	1.93	79.	10.1	287.0	2.0
12	01	01	1	07	-14.9	0.174	-9.000	-9.000	-999.	174.	33.2	0.15	2.40	1.00	1.96	77.	10.1	284.2	2.0
12	01	01	1	08	-11.9	0.169	-9.000	-9.000	-999.	167.	36.1	0.15	2.40	0.53	1.89	77.	10.1	288.1	2.0
12	01	01	1	09	40.4	0.234	0.359	0.006	40.	272.	-28.1	0.15	2.40	0.31	2.10	81.	10.1	289.2	2.0
12	01	01	1	10	112.6	0.246	0.742	0.005	129.	293.	-11.8	0.15	2.40	0.24	1.99	101.	10.1	296.4	2.0
12	01	01	1	11	161.0	0.402	1.188	0.005	369.	611.	-35.6	0.15	2.40	0.21	3.68	78.	10.1	298.8	2.0
12	01	01	1	12	184.7	0.337	1.516	0.005	668.	473.	-18.4	0.15	2.40	0.20	2.89	68.	10.1	300.4	2.0
12	01	01	1	13	183.9	0.310	1.809	0.005	1139.	414.	-14.2	0.15	2.40	0.20	2.57	64.	10.1	302.5	2.0
12	01	01	1	14	156.6	0.374	1.852	0.005	1434.	549.	-29.5	0.15	2.40	0.22	3.37	63.	10.1	303.1	2.0
12	01	01	1	15	104.3	0.382	1.658	0.005	1546.	567.	-47.2	0.15	2.40	0.25	3.59	62.	10.1	302.5	2.0
12	01	01	1	16	31.8	0.374	1.123	0.005	1573.	550.	-145.8	0.15	2.40	0.34	3.76	69.	10.1	300.9	2.0
12	01	01	1	17	-23.3	0.276	-9.000	-9.000	-999.	354.	84.0	0.15	2.40	0.62	3.03	59.	10.1	297.5	2.0
12	01	01	1	18	-21.5	0.229	-9.000	-9.000	-999.	264.	57.8	0.15	2.40	1.00	2.54	54.	10.1	295.4	2.0
12	01	01	1	19	-19.3	0.204	-9.000	-9.000	-999.	221.	45.6	0.15	2.40	1.00	2.27	79.	10.1	292.0	2.0
12	01	01	1	20	-20.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.15	2.40	1.00	2.42	79.	10.1	292.5	2.0
12	01	01	1	21	-19.7	0.206	-9.000	-9.000	-999.	225.	46.9	0.15	2.40	1.00	2.30	95.	10.1	290.9	2.0
12	01	01	1	22	-17.6	0.190	-9.000	-9.000	-999.	199.	39.8	0.15	2.40	1.00	2.13	78.	10.1	290.4	2.0
12	01	01	1	23	-20.3	0.211	-9.000	-9.000	-999.	233.	49.0	0.15	2.40	1.00	2.35	52.	10.1	289.2	2.0
12	01	01	1	24	-16.4	0.183	-9.000	-9.000	-999.	189.	37.0	0.15	2.40	1.00	2.06	75.	10.1	288.8	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV

```
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        10:11:07

                     PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                             SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1         , VOL2         ,
                                 VOL3         , VOL4         , VOL5         ,
                VOL6         , VOL7         , VOL8         , VOL9         , VOL10        ,
                VOL11        , VOL12        , VOL13        ,
                VOL14        , VOL15        , VOL16        , VOL17        , VOL18        ,
                VOL19        , VOL20        , VOL21        ,
                VOL22        , VOL23        , VOL24        , VOL25        , VOL26        ,
                VOL27        , VOL28        ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                         ** CONC OF NOX      IN
                                         MICROGRAMS/M**3                          **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
       472283.74   3752640.98        3.29755  (13112916)               472482.23
       3752398.04        1.89018  (14111116)
       472477.97   3752183.12        2.19726  (12121716)               472148.10
       3752531.53        6.11759  (13112916)
       472052.12   3752531.22        7.31661  (13112916)               471975.52
       3752531.22        5.55085  (13112916)
       471896.06   3752530.90        5.52525  (13112916)               471840.76
       3752529.94        5.46491  (13112916)
       471816.60   3752527.08        5.25397  (13112916)               471736.82
       3752557.91        5.84627  (13112916)
       471696.59   3752558.87        6.36913  (13112916)               471627.29
       3752556.22        6.21897  (13112916)
       471584.60   3752556.76        5.40124  (13112916)               471560.01
       3752556.22        4.96492  (13112916)
       471534.35   3752554.87        4.70848  (13112916)               471514.89
       3752554.87        4.66803  (13112916)
       471486.79   3752555.68        4.83172  (13112916)               471465.72
       3752555.41        4.96747  (13112916)
       471442.21   3752554.98        4.97394  (13112916)               471419.71
       3752552.46        4.91735  (13112916)
       471394.22   3752552.91        4.74290  (13112916)               471363.44
       3752552.46        4.55338  (13112916)
       471332.68   3752553.31        4.51073  (13112916)               471307.62
       3752552.94        4.66656  (13112916)
       471284.05   3752552.70        4.92589  (13112916)               471261.98
       3752552.70        5.16248  (13112916)
       471241.90   3752552.70        5.30705  (13112916)               471223.15
       3752552.86        5.35806  (13112916)
       471205.90   3752552.86        5.33039  (13112916)               471173.21
       3752552.37        5.06218  (13112916)
       471135.70   3752552.53        4.22281  (13112916)               471093.22
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       471059.37   3752551.70        4.19460  (14021809)               471020.54
       3752551.20        3.77738  (14021809)
       470981.05   3752563.65        2.90280  (14021809)               470980.39
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3752144.30 1.43203 (15021709)
470633.46 3752144.13 1.38935 (15021709) 470615.54
3752143.97 1.35060 (15021709)
470595.95 3752143.30 1.31161 (15021709) 470577.03
3752143.47 1.27613 (15021709)
470553.63 3752143.47 1.23563 (15021709) 470528.57
3752142.64 1.19644 (15021709)
470507.99 3752142.80 1.16623 (15021709) 470485.59
3752142.47 1.13579 (15021709)
470471.60 3752131.63 1.12428 (15021709) 470471.60
3752109.21 1.13836 (15021709)
470471.32 3752085.22 1.15422 (15021709) 470471.46
3752037.68 1.19142 (15021709)
470471.74 3752013.00 1.21385 (15021709) 470470.89
3751987.18 1.23725 (15021709)
470470.89 3751965.74 1.25816 (15021709) 470470.75
3751944.44 1.27836 (15021709)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	1.29638	(15021709)	470470.47	3751905.93	1.31112	(15021709)
470470.89	3751884.06	1.32693	(15021709)	470470.61	3751864.03	1.33694	(15021709)
470470.33	3751844.00	1.34338	(15021709)	470470.19	3751824.53	1.34625	(15021709)
470470.33	3751805.77	1.34627	(15021709)	470470.33	3751788.00	1.34331	(15021709)
470470.33	3751761.19	1.33515	(15021709)	470471.03	3751741.87	1.32767	(15021709)
470470.05	3751722.82	1.31537	(15021709)	470470.19	3751703.36	1.30336	(15021709)
470470.19	3751683.75	1.28987	(15021709)	470470.33	3751664.28	1.28330	(14123016)
470470.33	3751642.41	1.29219	(14123016)	470470.47	3751621.82	1.29752	(14123016)
470470.19	3751599.81	1.29941	(14123016)	470470.61	3751578.79	1.29944	(14123016)
470469.62	3751555.94	1.29073	(14123016)	470470.05	3751512.49	1.27003	(14123016)
470468.64	3751414.59	1.19423	(14123016)	470469.76	3751385.25	1.19214	(14123016)
470468.65	3751358.95	1.16879	(14123016)	470462.93	3751325.56	1.12987	(12121315)
470461.98	3751310.62	1.12633	(12121315)	470462.61	3751296.63	1.12570	(12121315)
470462.61	3751283.28	1.12390	(12121315)	470462.61	3751269.92	1.12189	(12121315)
470462.93	3751254.35	1.11952	(12121315)	470461.98	3751240.67	1.11458	(12121315)
470463.25	3751227.64	1.11242	(12121315)	470756.39	3751290.59	1.83666	(12121315)
470797.72	3751268.33	1.93772	(12121315)	470891.19	3751226.38	2.24443	(12012316)
470940.78	3751191.82	2.35392	(14020616)	471000.61	3750923.63	2.12354	(12012316)
471029.26	3750923.63	2.15038	(12012316)	471056.29	3750923.90	2.14609	(12012316)
471077.91	3750924.44	2.12313	(12012316)	471097.64	3750924.44	2.08300	(12012316)
471118.18	3750924.98	2.08842	(16112816)	471138.99	3750927.42	2.27859	(16112816)
471160.07	3750928.77	2.49178	(16112816)	471181.15	3750931.47	2.83571	(12121316)
471201.69	3750930.93	3.28003	(12121316)	471222.50	3750931.47	3.22236	(12121316)
471244.13	3750931.20	3.44146	(16112816)	471264.40	3750931.74	3.63219	(16112816)
471284.40	3750931.74	3.76139	(16112816)	471305.75	3750931.74	3.82667	(16112816)
471324.67	3750930.93	3.80508	(16112816)	471343.05	3750930.12	3.72605	(16112816)
471363.86	3750929.04	3.58429	(16112816)	471381.96	3750928.77	3.44020	(16112816)
471400.88	3750928.23	3.28318	(16112816)	471421.15	3750927.96	3.13383	(16112816)
471440.59	3750928.11	3.02995	(16112816)	471461.83	3750927.45	2.96394	(16112816)
471479.76	3750927.95	2.94944	(16112816)	471499.68			

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	2.60342	(12121716)	472000.19	3751199.12	2.86938	(12121716)
471999.80	3751230.56	3.01346	(12121716)	472000.38	3751251.46	3.07499	(12121716)
472000.19	3751281.15	3.16036	(12121716)	472001.95	3751347.94	3.45230	(12121716)
472036.90	3751348.52	3.27608	(12121716)	472063.07	3751349.31	3.15614	(12121716)
472084.56	3751348.33	3.06186	(12121716)	472104.87	3751348.72	2.98520	(12121716)
472127.33	3751348.52	2.90010	(12121716)	472150.76	3751349.70	2.82057	(12121716)
472171.47	3751349.50	2.74471	(12121716)	472194.12	3751349.11	2.66174	(12121716)
472222.63	3751348.72	2.57169	(12121716)	472247.83	3751349.50	2.49632	(12121716)
472269.70	3751349.11	2.43114	(12121716)	472290.40			

3751350.28 2.37817 (12121716)
472313.64 3751350.48 2.31806 (12121716) 472333.76
3751351.26 2.26947 (12121716)
472354.85 3751351.26 2.21578 (12121716) 472377.70
3751351.06 2.15776 (12121716)
472401.72 3751351.06 2.09996 (12121716) 472425.55
3751351.84 2.04809 (12121716)
472445.67 3751350.67 2.00367 (12121716) 472463.24
3751350.87 1.96663 (12121716)
472484.14 3751350.87 1.92303 (12121716) 472503.87
3751351.26 1.88599 (12121716)
472523.79 3751351.26 1.85133 (12121716) 472543.32
3751351.26 1.81897 (12121716)
472563.24 3751352.24 1.78762 (12121716) 472582.57
3751352.04 1.75640 (12121716)
472601.32 3751352.04 1.72742 (12121716) 472606.79
3751367.27 1.74080 (12121716)
472607.57 3751396.37 1.78567 (12121716) 472608.55
3751432.11 1.84919 (12121716)
472608.94 3751462.58 1.91294 (12121716) 472609.52
3751497.15 2.01214 (12121716)
472610.70 3751553.78 2.27177 (12121716) 472665.97
3751553.98 2.23364 (12121716)
472690.38 3751553.59 2.21787 (12121716) 472713.50
3751554.27 2.21236 (12121716)
472734.64 3751554.04 2.19948 (12121716) 472759.46
3751554.04 2.18575 (12121716)
472781.75 3751554.50 2.17757 (12121716) 472849.76
3751556.11 2.16629 (12121716)
472871.82 3751556.11 2.15482 (12121716) 472895.25
3751555.65 2.13793 (12121716)
472922.60 3751555.88 2.12284 (12121716) 473092.41
3751802.31 3.81311 (12121716)
473204.80 3751856.81 2.61015 (12121716) 472991.21
3752083.31 2.77821 (13112916)
473295.12 3752052.49 1.37529 (14111116) 473356.76
3752050.34 1.17422 (14111116)
473495.10 3751996.58 1.16527 (13112016) 473486.50
3751917.74 1.41380 (13112016)
473392.60 3752058.22 1.08943 (14111116) 473464.28
3752082.59 0.96174 (14111116)
473550.29 3752087.61 0.84419 (13121916) 473584.69
3752089.76 0.81756 (13121916)
472765.59 3752474.09 1.17263 (14111116) 470432.16
3750483.93 1.92878 (12121316)
469244.06 3754182.82 0.40441 (14020709) 469596.75
3750785.65 0.61062 (14101709)
470466.55 3750530.27 2.13366 (12121316) 469319.29
3749244.53 0.48818 (14121709)
469229.64 3749502.19 0.46659 (15122209) 468465.38
3749582.33 0.47750 (12011709)
471438.37 3750129.76 1.42170 (15122816) 471657.54
3749918.78 1.05343 (15122816)
471732.91 3749916.52 0.96744 (15122816) 471710.30
3750132.80 1.17294 (15122816)
471273.89 3750119.77 1.21230
(15122816)

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	7.31661	ON 13112916: AT (472052.12, 3752531.22, 499.36, 512.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1638 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1039 Calm Hours Identified

A Total of 599 Missing Hours Identified (1.37 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 881 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 881 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/15/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons PM10\14064 Cons
PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
   LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
   LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
   LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
   LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
   LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
   LOCATION PAREA1       AREAPOLY   470984.533  3751406.024      515.330
** Source Parameters **
   SRCPARAM VOL1         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL2         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL3         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL4         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL5         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL6         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL7         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL8         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL9         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL10        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL11        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL12        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL13        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL14        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL15        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL16        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL17        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL18        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL19        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL20        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL21        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL22        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL23        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL24        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL25        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL26        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL27        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL28        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL29        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL30        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL31        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL32        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL33        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL34        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL35        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL36        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL37        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL38        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL39        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL40        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL41        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL42        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL43        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL44        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL45        0.0005873338     5.000    43.702     1.400
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   SRCPARAM VOL46        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL47        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL48        0.0005873338     5.000    43.702     1.400
   SRCPARAM PAREA1       5.9658E-07     0.000        33     1.000
   AREAVERT PAREA1       470984.533 3751406.024 470977.851 3751426.069
   AREAVERT PAREA1       470961.147 3751427.739 470880.967 3751684.984
   AREAVERT PAREA1       470872.615 3751733.426 470869.274 3751801.913
   AREAVERT PAREA1       470885.978 3751888.775 470912.705 3751970.626
   AREAVERT PAREA1       470962.818 3752102.589 470972.840 3752174.417
   AREAVERT PAREA1       470974.511 3752314.732 470999.567 3752316.403
   AREAVERT PAREA1       471001.237 3752498.478 471078.077 3752500.149
   AREAVERT PAREA1       471078.077 3752465.070 471701.143 3752466.740
   AREAVERT PAREA1       471702.814 3752436.673 472100.373 3752443.354
   AREAVERT PAREA1       472095.362 3751942.229 472521.319 3751948.910
   AREAVERT PAREA1       472517.978 3752139.338 472700.054 3752139.338
   AREAVERT PAREA1       472705.065 3751973.967 472935.583 3752014.057
   AREAVERT PAREA1       472963.980 3751842.003 472753.507 3751786.880
   AREAVERT PAREA1       472599.829 3751766.834 472369.311 3751755.142
   AREAVERT PAREA1       472160.508 3751753.471 472005.159 3751771.846
   AREAVERT PAREA1       471585.884 3751228.959 471189.995 3751228.959
   AREAVERT PAREA1       471083.088 3751419.387
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
```

```
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED "14064 Cons PM10.rou"
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
```

```
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 CONS PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Cons PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/15/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons PM10\14064 Cons
PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
```

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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
   LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
   LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
   LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
   LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
   LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
   LOCATION PAREA1       AREAPOLY   470984.533  3751406.024      515.330
** Source Parameters **
   SRCPARAM VOL1         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL2         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL3         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL4         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL5         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL6         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL7         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL8         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL9         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL10        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL11        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL12        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL13        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL14        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL15        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL16        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL17        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL18        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL19        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL20        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL21        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL22        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL23        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL24        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL25        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL26        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL27        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL28        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL29        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL30        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL31        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL32        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL33        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL34        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL35        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL36        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL37        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL38        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL39        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL40        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL41        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL42        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL43        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL44        0.0005873338     5.000    43.702     1.400
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   SRCPARAM VOL45        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL46        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL47        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL48        0.0005873338     5.000    43.702     1.400
   SRCPARAM PAREA1       5.9658E-07     0.000        33     1.000
   AREAVERT PAREA1       470984.533 3751406.024 470977.851 3751426.069
   AREAVERT PAREA1       470961.147 3751427.739 470880.967 3751684.984
   AREAVERT PAREA1       470872.615 3751733.426 470869.274 3751801.913
   AREAVERT PAREA1       470885.978 3751888.775 470912.705 3751970.626
   AREAVERT PAREA1       470962.818 3752102.589 470972.840 3752174.417
   AREAVERT PAREA1       470974.511 3752314.732 470999.567 3752316.403
   AREAVERT PAREA1       471001.237 3752498.478 471078.077 3752500.149
   AREAVERT PAREA1       471078.077 3752465.070 471701.143 3752466.740
   AREAVERT PAREA1       471702.814 3752436.673 472100.373 3752443.354
   AREAVERT PAREA1       472095.362 3751942.229 472521.319 3751948.910
   AREAVERT PAREA1       472517.978 3752139.338 472700.054 3752139.338
   AREAVERT PAREA1       472705.065 3751973.967 472935.583 3752014.057
   AREAVERT PAREA1       472963.980 3751842.003 472753.507 3751786.880
   AREAVERT PAREA1       472599.829 3751766.834 472369.311 3751755.142
   AREAVERT PAREA1       472160.508 3751753.471 472005.159 3751771.846
   AREAVERT PAREA1       471585.884 3751228.959 471189.995 3751228.959
   AREAVERT PAREA1       471083.088 3751419.387
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** Sunday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14064 Cons PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
```

```
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 CONS PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Cons PM10.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     915       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     915       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:58:02

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for    49 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: PM_10

 **Model Calculates  1 Short Term Average(s) of:  24-HR

 **This Run Includes:     49 Source(s);       1 Source Group(s); and     233 Receptor(s)
```

```
               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     48 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing
                                                                 Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
 0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Input Runstream File:
 aermod.inp
 **Output Print File:
 aermod.out

 **Detailed Error/Message File:   14064 Cons
 PM10.err
 **File for Summary of Results:   14064 Cons
 PM10.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        13:58:02

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - -

 VOL1             0   0.58733E-03  471175.5 3752366.4   510.2     5.00    43.70     1.40
 YES   HRDOW
 VOL2             0   0.58733E-03  471362.2 3752367.6   512.4     5.00    43.70     1.40
```

YES	HRDOW							
VOL3	0	0.58733E-03	471550.1	3752368.4	518.9	5.00	43.70	1.40
YES	HRDOW							
VOL4	0	0.58733E-03	471609.6	3752371.6	516.0	5.00	43.70	1.40
YES	HRDOW							
VOL5	0	0.58733E-03	471796.7	3752342.2	515.1	5.00	43.70	1.40
YES	HRDOW							
VOL6	0	0.58733E-03	471984.7	3752344.6	513.6	5.00	43.70	1.40
YES	HRDOW							
VOL7	0	0.58733E-03	472003.7	3752347.0	512.1	5.00	43.70	1.40
YES	HRDOW							
VOL8	0	0.58733E-03	472002.9	3752159.1	521.6	5.00	43.70	1.40
YES	HRDOW							
VOL9	0	0.58733E-03	471814.2	3752156.7	520.7	5.00	43.70	1.40
YES	HRDOW							
VOL10	0	0.58733E-03	471628.6	3752181.3	526.8	5.00	43.70	1.40
YES	HRDOW							
VOL11	0	0.58733E-03	471440.7	3752181.3	527.4	5.00	43.70	1.40
YES	HRDOW							
VOL12	0	0.58733E-03	471253.6	3752180.5	518.9	5.00	43.70	1.40
YES	HRDOW							
VOL13	0	0.58733E-03	471092.6	3752217.7	509.6	5.00	43.70	1.40
YES	HRDOW							
VOL14	0	0.58733E-03	471074.4	3752029.0	516.1	5.00	43.70	1.40
YES	HRDOW							
VOL15	0	0.58733E-03	471263.9	3751992.5	521.1	5.00	43.70	1.40
YES	HRDOW							
VOL16	0	0.58733E-03	471452.6	3751994.1	530.0	5.00	43.70	1.40
YES	HRDOW							
VOL17	0	0.58733E-03	471640.5	3751992.5	534.9	5.00	43.70	1.40
YES	HRDOW							
VOL18	0	0.58733E-03	471827.7	3751968.0	533.0	5.00	43.70	1.40
YES	HRDOW							
VOL19	0	0.58733E-03	472002.9	3751970.3	527.9	5.00	43.70	1.40
YES	HRDOW							
VOL20	0	0.58733E-03	471845.1	3751780.0	538.8	5.00	43.70	1.40
YES	HRDOW							
VOL21	0	0.58733E-03	471657.2	3751803.8	536.0	5.00	43.70	1.40
YES	HRDOW							
VOL22	0	0.58733E-03	471468.5	3751806.2	528.3	5.00	43.70	1.40
YES	HRDOW							
VOL23	0	0.58733E-03	471280.5	3751807.0	525.0	5.00	43.70	1.40
YES	HRDOW							
VOL24	0	0.58733E-03	471093.4	3751841.9	515.6	5.00	43.70	1.40
YES	HRDOW							
VOL25	0	0.58733E-03	470978.4	3751841.9	518.1	5.00	43.70	1.40
YES	HRDOW							
VOL26	0	0.58733E-03	471014.1	3751654.8	520.4	5.00	43.70	1.40
YES	HRDOW							
VOL27	0	0.58733E-03	471201.2	3751654.8	525.1	5.00	43.70	1.40
YES	HRDOW							
VOL28	0	0.58733E-03	471389.2	3751619.1	534.9	5.00	43.70	1.40
YES	HRDOW							
VOL29	0	0.58733E-03	471577.9	3751616.7	529.0	5.00	43.70	1.40
YES	HRDOW							
VOL30	0	0.58733E-03	471724.6	3751620.7	533.8	5.00	43.70	1.40
YES	HRDOW							
VOL31	0	0.58733E-03	471941.0	3751865.7	534.6	5.00	43.70	1.40
YES	HRDOW							
VOL32	0	0.58733E-03	471795.2	3751684.9	537.3	5.00	43.70	1.40
YES	HRDOW							
VOL33	0	0.58733E-03	471577.9	3751434.3	531.1	5.00	43.70	1.40
YES	HRDOW							
VOL34	0	0.58733E-03	471390.0	3751431.9	537.3	5.00	43.70	1.40
YES	HRDOW							
VOL35	0	0.58733E-03	471202.0	3751467.6	526.8	5.00	43.70	1.40

```
 YES   HRDOW
 VOL36           0   0.58733E-03  471065.7 3751504.9   522.0     5.00    43.70     1.40
 YES   HRDOW
 VOL37           0   0.58733E-03  471656.4 3751514.4   529.5     5.00    43.70     1.40
 YES   HRDOW
 VOL38           0   0.58733E-03  471522.4 3751324.1   529.0     5.00    43.70     1.40
 YES   HRDOW
 VOL39           0   0.58733E-03  471332.9 3751322.5   529.5     5.00    43.70     1.40
 YES   HRDOW
 VOL40           0   0.58733E-03  471282.9 3751321.7   528.2     5.00    43.70     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02

                      PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 VOL41           0   0.58733E-03  471233.8 3751388.3   528.5     5.00    43.70     1.40
 YES   HRDOW
 VOL42           0   0.58733E-03  472135.6 3751845.1   525.8     5.00    43.70     1.40
 YES   HRDOW
 VOL43           0   0.58733E-03  472323.4 3751843.5   510.5     5.00    43.70     1.40
 YES   HRDOW
 VOL44           0   0.58733E-03  472512.5 3751852.3   501.4     5.00    43.70     1.40
 YES   HRDOW
 VOL45           0   0.58733E-03  472698.0 3751875.5   491.4     5.00    43.70     1.40
 YES   HRDOW
 VOL46           0   0.58733E-03  472880.8 3751928.7   487.9     5.00    43.70     1.40
 YES   HRDOW
 VOL47           0   0.58733E-03  472608.0 3752044.6   498.5     5.00    43.70     1.40
 YES   HRDOW
 VOL48           0   0.58733E-03  471084.5 3752407.2   506.8     5.00    43.70     1.40
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02

                      PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER      INIT.
              URBAN  EMISSION RATE
   SOURCE      PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.     SZ
   SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
     (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -
```

```
 PAREA1           0   0.59658E-06  470984.5 3751406.0   515.3     0.00      33         1.00
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***       13:58:02

                      PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
  VOL7        , VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
             VOL47       , VOL48       ,

             PAREA1      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***       13:58:02

                      PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                 SOURCE IDs
  --------   ---------                                 ----------


              2189641.   VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
              VOL6        , VOL7        ,
 VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
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            VOL39       , VOL40       ,

            VOL41       , VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
            VOL47       , VOL48       ,

            PAREA1      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        13:58:02

                      PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL1         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        13:58:02

                      PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL2         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR						

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR						

```
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        13:58:02

                       PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL5         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        13:58:02

                       PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14

```
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02

                     PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL12        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02

                     PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL13        ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02

                     PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL14        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 12/15/22
*** AERMET - VERSION 16216 ***
*** *** 13:58:02

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL17 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL18 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6

.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        13:58:02

                        PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL21        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                         ***        13:58:02

                        PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
```

```
                  (HRDOW) *

 SOURCE ID = VOL22        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL23        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

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                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        13:58:02

                        PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL26        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        13:58:02

                        PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL27        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
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   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02

                      PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02

                      PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL29        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

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 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL30        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14					

.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL35 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL36 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:58:02

                     PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:58:02

                     PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
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```
 SOURCE ID = VOL38        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:58:02

                      PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL39        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6					

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:58:02

                      PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL44        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        13:58:02

                      PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01												
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00												

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00												
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00												

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00												
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00												

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01
16	.1000E+01												
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00												

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00												
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00												

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00
16	.0000E+00												
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
24	.0000E+00												

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL47        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL48        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7,	3752641.0,	492.6,	492.6,	2.0);	(472482.2,	3752398.0,	499.3,	499.3,	2.0);
(472478.0,	3752183.1,	505.1,	505.1,	2.0);	(472148.1,	3752531.5,	495.2,	502.0,	2.0);
(472052.1,	3752531.2,	499.4,	512.0,	2.0);	(471975.5,	3752531.2,	500.5,	514.0,	2.0);
(471896.1,	3752530.9,	503.4,	513.0,	2.0);	(471840.8,	3752529.9,	503.4,	513.0,	2.0);
(471816.6,	3752527.1,	500.6,	513.0,	2.0);	(471736.8,	3752557.9,	501.5,	501.5,	2.0);
(471696.6,	3752558.9,	500.0,	500.0,	2.0);	(471627.3,	3752556.2,	501.9,	512.0,	2.0);
(471584.6,	3752556.8,	504.5,	507.0,	2.0);	(471560.0,	3752556.2,	504.6,	507.0,	2.0);
(471534.3,	3752554.9,	503.2,	509.0,	2.0);	(471514.9,	3752554.9,	502.2,	519.0,	2.0);
(471486.8,	3752555.7,	503.1,	503.1,	2.0);	(471465.7,	3752555.4,			

503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5,
500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5,
503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9,
506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7,
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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    535.4,     535.4,        2.0);
    ( 471732.9, 3749916.5,     534.7,     534.7,       2.0);         ( 471710.3, 3750132.8,
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    2.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***        13:58:02

                        PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                (1=YES; 0=NO)

              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
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           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
           1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
               INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                              (METERS/SEC)

                                                    1.54,    3.09,    5.14,    8.23,  10.80,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                          ***        13:58:02

                      PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                      *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC                                                               Met
   Version:  16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:     3171                  Upper air station no.:     3190
                  Name: UNKNOWN                                    Name:
                  UNKNOWN
                  Year:   2012                                     Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
 12 01 01   1 01  -25.6  0.266 -9.000 -9.000 -999.  330.     77.9  0.15   2.40   1.00    2.93
 55.   10.1  288.1    2.0
 12 01 01   1 02  -26.8  0.277 -9.000 -9.000 -999.  351.     84.7  0.15   2.40   1.00    3.05
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
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 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
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 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
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 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
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 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        13:58:02

                     PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                             SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                 VOL3        , VOL4        , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                VOL11       , VOL12       , VOL13       ,
                VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                VOL19       , VOL20       , VOL21       ,
                VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                VOL27       , VOL28       ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_10    IN
                                       MICROGRAMS/M**3                         **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
       472283.74   3752640.98        0.32728  (13100924)              472482.23
       3752398.04        0.41895m (13112124)
       472477.97   3752183.12        0.54126  (13121924)              472148.10
       3752531.53        0.53134  (13100924)
```

```
472052.12   3752531.22        0.61867  (13100924)              471975.52
3752531.22        0.65963  (13100924)
471896.06   3752530.90        0.68825  (13100924)              471840.76
3752529.94        0.69491  (13100924)
471816.60   3752527.08        0.69193  (13100924)              471736.82
3752557.91        0.64971  (13100924)
471696.59   3752558.87        0.64579  (13100924)              471627.29
3752556.22        0.66236  (13100924)
471584.60   3752556.76        0.66396  (13100924)              471560.01
3752556.22        0.65972  (13100924)
471534.35   3752554.87        0.65354  (16010624)              471514.89
3752554.87        0.65434  (16010624)
471486.79   3752555.68        0.66173  (16010624)              471465.72
3752555.41        0.66620  (16010624)
471442.21   3752554.98        0.66239  (16010624)              471419.71
3752552.46        0.66833  (16010624)
471394.22   3752552.91        0.67362  (16010624)              471363.44
3752552.46        0.68710  (16010624)
471332.68   3752553.31        0.69312  (16010624)              471307.62
3752552.94        0.69763  (16010624)
471284.05   3752552.70        0.69520  (16010624)              471261.98
3752552.70        0.69207  (16010624)
471241.90   3752552.70        0.68982  (16010624)              471223.15
3752552.86        0.68813  (16010624)
471205.90   3752552.86        0.68676  (16010624)              471173.21
3752552.37        0.68585  (16010624)
471135.70   3752552.53        0.68433  (16010624)              471093.22
3752551.54        0.68651  (16010624)
471059.37   3752551.70        0.69362  (16010624)              471020.54
3752551.20        0.69711  (16010624)
470981.05   3752563.65        0.60316  (16010524)              470980.39
3752552.20        0.65088  (16010524)
470980.06   3752535.61        0.73115  (16010524)              470979.89
3752517.19        0.83280  (16010524)
470980.06   3752499.76        0.93790  (14121224)              470980.22
3752479.85        1.00998  (14121224)
470980.39   3752459.44        1.05236  (14121224)              470980.22
3752433.22        1.08876  (14121224)
470980.06   3752404.02        1.16752  (12121324)              470927.12
3752402.69        0.75982  (14121224)
470907.87   3752402.69        0.68731  (14121224)              470887.30
3752402.69        0.62475  (14121224)
470869.71   3752402.03        0.58565  (14121224)              470849.63
3752401.86        0.54515  (14121224)
470829.39   3752402.19        0.50854  (14121224)              470811.63
3752402.19        0.47993  (14121224)
470791.55   3752402.53        0.45057  (14121224)              470773.63
3752401.86        0.42732  (14121224)
470749.24   3752402.19        0.39868  (14121224)              470727.72
3752391.74        0.38043  (14121224)
470733.04   3752338.97        0.40313  (14121224)              470733.70
3752320.55        0.40866  (14121224)
470734.20   3752291.01        0.41686  (14121224)              470733.20
3752265.78        0.42566  (15112724)
470732.87   3752218.81        0.44742  (15112724)              470732.54
3752182.14        0.46239  (15112724)
470732.37   3752145.29        0.47749  (15112724)              470692.38
3752144.80        0.43190  (15112724)
470670.14   3752144.46        0.41000  (15112724)              470651.72
3752144.30        0.39337  (15112724)
470633.46   3752144.13        0.37806  (15112724)              470615.54
3752143.97        0.36408  (15112724)
470595.95   3752143.30        0.35000  (15112724)              470577.03
3752143.47        0.33709  (15112724)
470553.63   3752143.47        0.32230  (15112724)              470528.57
3752142.64        0.30793  (15112724)
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	0.32350	(15112724)	470470.47	3751905.93	0.32566	(15112724)
470470.89	3751884.06	0.32810	(15112724)	470470.61	3751864.03	0.32945	(15112724)
470470.33	3751844.00	0.33022	(15112724)	470470.19	3751824.53	0.33042	(15112724)
470470.33	3751805.77	0.33026	(15112724)	470470.33	3751788.00	0.32956	(15112724)
470470.33	3751761.19	0.32812	(15112724)	470471.03	3751741.87	0.32667	(15112724)
470470.05	3751722.82	0.32349	(15112724)	470470.19	3751703.36	0.32020	(15112724)
470470.19	3751683.75	0.31832	(14121624)	470470.33	3751664.28	0.31675	(14121624)
470470.33	3751642.41	0.31421	(14121624)	470470.47	3751621.82	0.31133	(14121624)
470470.19	3751599.81	0.31186c	(14123024)	470470.61	3751578.79	0.31661c	(14123024)
470469.62	3751555.94	0.31978c	(14123024)	470470.05	3751512.49	0.32533c	(14123024)
470468.64	3751414.59	0.32579c	(14123024)	470469.76	3751385.25	0.32485c	(14123024)
470468.65	3751358.95	0.32121c	(14123024)	470462.93	3751325.56	0.31297c	(14123024)
470461.98	3751310.62	0.31041	(13012524)	470462.61	3751296.63	0.31124	(13012524)
470462.61	3751283.28	0.31162	(13012524)	470462.61	3751269.92	0.31176	(13012524)

```
       470462.93   3751254.35        0.31171  (13012524)                470461.98
       3751240.67        0.31123  (13012524)
       470463.25   3751227.64        0.31146  (13012524)                470756.39
       3751290.59        0.61681  (12121324)
       470797.72   3751268.33        0.65705  (12121324)                470891.19
       3751226.38        0.72475  (12121324)
       470940.78   3751191.82        0.70628  (12121324)                471000.61
       3750923.63        0.45821  (12121324)
       471029.26   3750923.63        0.46395  (12121324)                471056.29
       3750923.90        0.46610  (12121324)
       471077.91   3750924.44        0.46544  (12121324)                471097.64
       3750924.44        0.46265  (12121324)
       471118.18   3750924.98        0.45734  (12121324)                471138.99
       3750927.42        0.45336  (12121324)
       471160.07   3750928.77        0.44895  (12121324)                471181.15
       3750931.47        0.44574  (12121324)
       471201.69   3750930.93        0.44001  (12121324)                471222.50
       3750931.47        0.43461  (12121324)
       471244.13   3750931.20        0.42688  (12121324)                471264.40
       3750931.74        0.41939  (12121324)
       471284.40   3750931.74        0.41112  (12121324)                471305.75
       3750931.74        0.40247  (12121324)
       471324.67   3750930.93        0.39403  (12121324)                471343.05
       3750930.12        0.38909m (14123124)
       471363.86   3750929.04        0.38347m (14123124)                471381.96
       3750928.77        0.37666m (14123124)
       471400.88   3750928.23        0.36640m (14123124)                471421.15
       3750927.96        0.35444  (15122824)
       471440.59   3750928.11        0.36007  (15122824)                471461.83
       3750927.45        0.36517  (15122824)
       471479.76   3750927.95        0.36969  (15122824)                471499.68
       3750927.62        0.37340  (15122824)
       471519.26   3750928.78        0.37776  (15122824)                471537.02
       3750929.61        0.37981  (15122824)
       471556.77   3750930.94        0.38161  (15122824)                471580.68
       3750934.09        0.38371  (15122824)
       471624.00   3750940.23        0.38214  (15122824)                471795.90
       3750950.11        0.32820  (15122824)
       471796.29   3750967.88        0.34008  (15122824)                471796.69
       3750987.22        0.35488  (15122824)
       471797.47   3751006.75        0.37157  (15122824)                471796.69
       3751025.30        0.38680  (15122824)
       471795.90   3751046.40        0.40511  (15122824)                471796.69
       3751072.96        0.42828  (15122824)
       471797.47   3751143.85        0.49605  (15122824)                471833.01
       3751143.85        0.46323  (15122824)
       471867.38   3751144.05        0.43628  (15122824)                471891.02
       3751144.44        0.42005  (15122824)
       471916.60   3751144.24        0.40258  (15122824)                471939.45
       3751144.24        0.38728  (15122824)
       471963.08   3751144.44        0.37518  (15122824)                471984.17
       3751144.05        0.36207  (15122824)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       13:58:02

                     PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                  VOL11       , VOL12       , VOL13       ,
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VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	0.35965	(15122824)	472000.19	3751199.12	0.36778	(15122824)
471999.80	3751230.56	0.37997	(15122824)	472000.38	3751251.46	0.38773	(15122824)
472000.19	3751281.15	0.40173	(13112024)	472001.95	3751347.94	0.45719	(13112024)
472036.90	3751348.52	0.42869	(13112024)	472063.07	3751349.31	0.41003	(13112024)
472084.56	3751348.33	0.39604	(13112024)	472104.87	3751348.72	0.38573	(13112024)
472127.33	3751348.52	0.37528	(13112024)	472150.76	3751349.70	0.36629	(13112024)
472171.47	3751349.50	0.35785	(13112024)	472194.12	3751349.11	0.35068	(13112024)
472222.63	3751348.72	0.34298	(13112024)	472247.83	3751349.50	0.33745	(13112024)
472269.70	3751349.11	0.33346	(13112024)	472290.40	3751350.28	0.32800	(13112024)
472313.64	3751350.48	0.32140	(13112024)	472333.76	3751351.26	0.31712	(13112024)
472354.85	3751351.26	0.31536	(13112024)	472377.70	3751351.06	0.31441	(13112024)
472401.72	3751351.06	0.31346	(13112024)	472425.55	3751351.84	0.30945	(13112024)
472445.67	3751350.67	0.30515	(13112024)	472463.24	3751350.87	0.30210	(13112024)
472484.14	3751350.87	0.29822	(13112024)	472503.87	3751351.26	0.29437	(13112024)
472523.79	3751351.26	0.29001	(13112024)	472543.32	3751351.26	0.28553	(13112024)
472563.24	3751352.24	0.28130	(13112024)	472582.57	3751352.04	0.27665	(13112024)
472601.32	3751352.04	0.27223	(13112024)	472606.79	3751367.27	0.27698	(13112024)
472607.57	3751396.37	0.28891	(13112024)	472608.55	3751432.11	0.30527	(13112024)
472608.94	3751462.58	0.32171	(13112024)	472609.52	3751497.15	0.34364	(13112024)
472610.70	3751553.78	0.39242	(13112024)	472665.97	3751553.98	0.37588	(13112024)
472690.38	3751553.59	0.36923	(13112024)	472713.50	3751554.27	0.36479	(13112024)
472734.64	3751554.04	0.36036	(13112024)	472759.46	3751554.04	0.35576	(13112024)
472781.75	3751554.50	0.35215	(13112024)	472849.76	3751556.11	0.33851	(13112024)
472871.82	3751556.11	0.33157	(13112024)	472895.25	3751555.65	0.32288	(13112024)
472922.60	3751555.88	0.31312	(13112024)	473092.41	3751802.31	0.60252	(12042324)
473204.80	3751856.81	0.48967	(13111924)	472991.21	3752083.31	0.53029m	(13112124)

```
       473295.12   3752052.49        0.33912m (13112124)                473356.76
       3752050.34        0.29740  (15042424)
       473495.10   3751996.58        0.27022  (15042424)                473486.50
       3751917.74        0.28205  (12050124)
       473392.60   3752058.22        0.28209  (13020524)                473464.28
       3752082.59        0.26055  (13020524)
       473550.29   3752087.61        0.24265  (13020524)                473584.69
       3752089.76        0.23658  (13020524)
       472765.59   3752474.09        0.30518m (13112124)                470432.16
       3750483.93        0.25367  (12121324)
       469244.06   3754182.82        0.06351  (16091624)                469596.75
       3750785.65        0.20746  (13012524)
       470466.55   3750530.27        0.26256  (12121324)                469319.29
       3749244.53        0.09529  (12010224)
       469229.64   3749502.19        0.09421  (12010324)                468465.38
       3749582.33        0.12484  (13012524)
       471438.37   3750129.76        0.12537  (16011524)                471657.54
       3749918.78        0.11746  (15122824)
       471732.91   3749916.52        0.11787  (15122824)                471710.30
       3750132.80        0.13778  (15122824)
       471273.89   3750119.77        0.11534
       (16011524)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        13:58:02

                     PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                  ** CONC OF PM_10    IN
                                  MICROGRAMS/M**3                        **


                                                    DATE
                                                                          NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       1.16752  ON 12121324: AT (  470980.06,  3752404.02,
506.00,   506.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        13:58:02

                     PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
```

A Total of   1638 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1039 Calm Hours Identified

A Total of   599 Missing Hours Identified (1.37 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 915 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 915 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/15/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons PM25\14064 Cons
PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
   LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
   LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
   LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
   LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
   LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
   LOCATION PAREA1       AREAPOLY   470984.533  3751406.024      515.330
** Source Parameters **
   SRCPARAM VOL1         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL2         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL3         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL4         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL5         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL6         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL7         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL8         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL9         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL10        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL11        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL12        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL13        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL14        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL15        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL16        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL17        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL18        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL19        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL20        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL21        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL22        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL23        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL24        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL25        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL26        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL27        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL28        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL29        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL30        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL31        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL32        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL33        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL34        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL35        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL36        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL37        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL38        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL39        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL40        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL41        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL42        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL43        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL44        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL45        0.0005873338     5.000    43.702     1.400
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   SRCPARAM VOL46        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL47        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL48        0.0005873338     5.000    43.702     1.400
   SRCPARAM PAREA1       1.8927E-07     0.000        33     1.000
   AREAVERT PAREA1       470984.533 3751406.024 470977.851 3751426.069
   AREAVERT PAREA1       470961.147 3751427.739 470880.967 3751684.984
   AREAVERT PAREA1       470872.615 3751733.426 470869.274 3751801.913
   AREAVERT PAREA1       470885.978 3751888.775 470912.705 3751970.626
   AREAVERT PAREA1       470962.818 3752102.589 470972.840 3752174.417
   AREAVERT PAREA1       470974.511 3752314.732 470999.567 3752316.403
   AREAVERT PAREA1       471001.237 3752498.478 471078.077 3752500.149
   AREAVERT PAREA1       471078.077 3752465.070 471701.143 3752466.740
   AREAVERT PAREA1       471702.814 3752436.673 472100.373 3752443.354
   AREAVERT PAREA1       472095.362 3751942.229 472521.319 3751948.910
   AREAVERT PAREA1       472517.978 3752139.338 472700.054 3752139.338
   AREAVERT PAREA1       472705.065 3751973.967 472935.583 3752014.057
   AREAVERT PAREA1       472963.980 3751842.003 472753.507 3751786.880
   AREAVERT PAREA1       472599.829 3751766.834 472369.311 3751755.142
   AREAVERT PAREA1       472160.508 3751753.471 472005.159 3751771.846
   AREAVERT PAREA1       471585.884 3751228.959 471189.995 3751228.959
   AREAVERT PAREA1       471083.088 3751419.387
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL8         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED "14064 Cons PM25.rou"
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
```

```
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 CONS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Cons PM25.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 12/15/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons PM25\14064 Cons
PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
   LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
   LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
   LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
   LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
   LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
   LOCATION PAREA1       AREAPOLY   470984.533  3751406.024      515.330
** Source Parameters **
   SRCPARAM VOL1         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL2         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL3         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL4         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL5         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL6         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL7         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL8         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL9         0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL10        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL11        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL12        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL13        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL14        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL15        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL16        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL17        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL18        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL19        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL20        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL21        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL22        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL23        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL24        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL25        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL26        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL27        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL28        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL29        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL30        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL31        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL32        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL33        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL34        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL35        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL36        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL37        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL38        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL39        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL40        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL41        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL42        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL43        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL44        0.0005873338     5.000    43.702     1.400
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   SRCPARAM VOL45        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL46        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL47        0.0005873338     5.000    43.702     1.400
   SRCPARAM VOL48        0.0005873338     5.000    43.702     1.400
   SRCPARAM PAREA1       1.8927E-07     0.000        33     1.000
   AREAVERT PAREA1       470984.533 3751406.024 470977.851 3751426.069
   AREAVERT PAREA1       470961.147 3751427.739 470880.967 3751684.984
   AREAVERT PAREA1       470872.615 3751733.426 470869.274 3751801.913
   AREAVERT PAREA1       470885.978 3751888.775 470912.705 3751970.626
   AREAVERT PAREA1       470962.818 3752102.589 470972.840 3752174.417
   AREAVERT PAREA1       470974.511 3752314.732 470999.567 3752316.403
   AREAVERT PAREA1       471001.237 3752498.478 471078.077 3752500.149
   AREAVERT PAREA1       471078.077 3752465.070 471701.143 3752466.740
   AREAVERT PAREA1       471702.814 3752436.673 472100.373 3752443.354
   AREAVERT PAREA1       472095.362 3751942.229 472521.319 3751948.910
   AREAVERT PAREA1       472517.978 3752139.338 472700.054 3752139.338
   AREAVERT PAREA1       472705.065 3751973.967 472935.583 3752014.057
   AREAVERT PAREA1       472963.980 3751842.003 472753.507 3751786.880
   AREAVERT PAREA1       472599.829 3751766.834 472369.311 3751755.142
   AREAVERT PAREA1       472160.508 3751753.471 472005.159 3751771.846
   AREAVERT PAREA1       471585.884 3751228.959 471189.995 3751228.959
   AREAVERT PAREA1       471083.088 3751419.387
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL31        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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** Sunday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "14064 Cons PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
```

```
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 CONS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Cons PM25.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     915       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     915       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for    49 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: PM_2.5

 **Model Calculates  1 Short Term Average(s) of:  24-HR

 **This Run Includes:     49 Source(s);       1 Source Group(s); and     233 Receptor(s)
```

```
               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     48 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing
                                                                 Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
 0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Input Runstream File:
 aermod.inp
 **Output Print File:
 aermod.out

 **Detailed Error/Message File:   14064 Cons
 PM25.err
 **File for Summary of Results:   14064 Cons
 PM25.sum
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        14:03:18

                      PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - -

 VOL1             0   0.58733E-03  471175.5 3752366.4   510.2     5.00    43.70     1.40
 YES   HRDOW
 VOL2             0   0.58733E-03  471362.2 3752367.6   512.4     5.00    43.70     1.40
```

YES	HRDOW							
VOL3	0	0.58733E-03	471550.1	3752368.4	518.9	5.00	43.70	1.40
YES	HRDOW							
VOL4	0	0.58733E-03	471609.6	3752371.6	516.0	5.00	43.70	1.40
YES	HRDOW							
VOL5	0	0.58733E-03	471796.7	3752342.2	515.1	5.00	43.70	1.40
YES	HRDOW							
VOL6	0	0.58733E-03	471984.7	3752344.6	513.6	5.00	43.70	1.40
YES	HRDOW							
VOL7	0	0.58733E-03	472003.7	3752347.0	512.1	5.00	43.70	1.40
YES	HRDOW							
VOL8	0	0.58733E-03	472002.9	3752159.1	521.6	5.00	43.70	1.40
YES	HRDOW							
VOL9	0	0.58733E-03	471814.2	3752156.7	520.7	5.00	43.70	1.40
YES	HRDOW							
VOL10	0	0.58733E-03	471628.6	3752181.3	526.8	5.00	43.70	1.40
YES	HRDOW							
VOL11	0	0.58733E-03	471440.7	3752181.3	527.4	5.00	43.70	1.40
YES	HRDOW							
VOL12	0	0.58733E-03	471253.6	3752180.5	518.9	5.00	43.70	1.40
YES	HRDOW							
VOL13	0	0.58733E-03	471092.6	3752217.7	509.6	5.00	43.70	1.40
YES	HRDOW							
VOL14	0	0.58733E-03	471074.4	3752029.0	516.1	5.00	43.70	1.40
YES	HRDOW							
VOL15	0	0.58733E-03	471263.9	3751992.5	521.1	5.00	43.70	1.40
YES	HRDOW							
VOL16	0	0.58733E-03	471452.6	3751994.1	530.0	5.00	43.70	1.40
YES	HRDOW							
VOL17	0	0.58733E-03	471640.5	3751992.5	534.9	5.00	43.70	1.40
YES	HRDOW							
VOL18	0	0.58733E-03	471827.7	3751968.0	533.0	5.00	43.70	1.40
YES	HRDOW							
VOL19	0	0.58733E-03	472002.9	3751970.3	527.9	5.00	43.70	1.40
YES	HRDOW							
VOL20	0	0.58733E-03	471845.1	3751780.0	538.8	5.00	43.70	1.40
YES	HRDOW							
VOL21	0	0.58733E-03	471657.2	3751803.8	536.0	5.00	43.70	1.40
YES	HRDOW							
VOL22	0	0.58733E-03	471468.5	3751806.2	528.3	5.00	43.70	1.40
YES	HRDOW							
VOL23	0	0.58733E-03	471280.5	3751807.0	525.0	5.00	43.70	1.40
YES	HRDOW							
VOL24	0	0.58733E-03	471093.4	3751841.9	515.6	5.00	43.70	1.40
YES	HRDOW							
VOL25	0	0.58733E-03	470978.4	3751841.9	518.1	5.00	43.70	1.40
YES	HRDOW							
VOL26	0	0.58733E-03	471014.1	3751654.8	520.4	5.00	43.70	1.40
YES	HRDOW							
VOL27	0	0.58733E-03	471201.2	3751654.8	525.1	5.00	43.70	1.40
YES	HRDOW							
VOL28	0	0.58733E-03	471389.2	3751619.1	534.9	5.00	43.70	1.40
YES	HRDOW							
VOL29	0	0.58733E-03	471577.9	3751616.7	529.0	5.00	43.70	1.40
YES	HRDOW							
VOL30	0	0.58733E-03	471724.6	3751620.7	533.8	5.00	43.70	1.40
YES	HRDOW							
VOL31	0	0.58733E-03	471941.0	3751865.7	534.6	5.00	43.70	1.40
YES	HRDOW							
VOL32	0	0.58733E-03	471795.2	3751684.9	537.3	5.00	43.70	1.40
YES	HRDOW							
VOL33	0	0.58733E-03	471577.9	3751434.3	531.1	5.00	43.70	1.40
YES	HRDOW							
VOL34	0	0.58733E-03	471390.0	3751431.9	537.3	5.00	43.70	1.40
YES	HRDOW							
VOL35	0	0.58733E-03	471202.0	3751467.6	526.8	5.00	43.70	1.40

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	BY
VOL41	0	0.58733E-03	471233.8	3751388.3	528.5	5.00	43.70	1.40	YES HRDOW
VOL42	0	0.58733E-03	472135.6	3751845.1	525.8	5.00	43.70	1.40	YES HRDOW
VOL43	0	0.58733E-03	472323.4	3751843.5	510.5	5.00	43.70	1.40	YES HRDOW
VOL44	0	0.58733E-03	472512.5	3751852.3	501.4	5.00	43.70	1.40	YES HRDOW
VOL45	0	0.58733E-03	472698.0	3751875.5	491.4	5.00	43.70	1.40	YES HRDOW
VOL46	0	0.58733E-03	472880.8	3751928.7	487.9	5.00	43.70	1.40	YES HRDOW
VOL47	0	0.58733E-03	472608.0	3752044.6	498.5	5.00	43.70	1.40	YES HRDOW
VOL48	0	0.58733E-03	471084.5	3752407.2	506.8	5.00	43.70	1.40	YES HRDOW

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	BY

```
 PAREA1           0   0.18927E-06  470984.5 3751406.0   515.3     0.00      33         1.00
 YES   HRDOW
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                      PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
  VOL7        , VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
             VOL47       , VOL48       ,

             PAREA1      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                      PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                 SOURCE IDs
  --------   ---------                                 ----------


              2189641.   VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
              VOL6        , VOL7        ,
 VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
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            VOL39       , VOL40       ,

            VOL41       , VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
            VOL47       , VOL48       ,

            PAREA1      ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                      PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL1         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                      PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL2         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

```
 - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:03:18

                        PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL5         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:03:18

                        PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

```
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:03:18

                      PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL10        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:03:18

                      PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL11        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14
.1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :

```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:03:18

                     PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL14        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:03:18
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL15 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 12/15/22
*** AERMET - VERSION 16216 ***
*** *** 14:03:18

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL16 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00												

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:03:18

                      PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL17        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:03:18

                      PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL18        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6
.0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
.0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
.0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL19 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:03:18

                        PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL21        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:03:18

                        PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
```

(HRDOW) *

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL24 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL25 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

```
                                               DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                        PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL26        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                               DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
␌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                        PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL27        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL28 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL29 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        14:03:18

                       PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL30        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        14:03:18

                       PAGE  37
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00										

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL33 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL34 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	

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    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                      PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL35        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                      PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL36        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                     PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                     PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
```

```
 SOURCE ID = VOL38        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                      PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL39        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SATURDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								
DAY OF WEEK = SUNDAY													
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6			

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:03:18

                      PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL44        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:03:18

                      PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00
23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL47 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL48 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01 14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00 6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.1000E+01	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(	472283.7,	3752641.0,	492.6,	492.6,	2.0);	(	472482.2,	3752398.0,	499.3,	499.3,	2.0);		
(	472478.0,	3752183.1,	505.1,	505.1,	2.0);	(	472148.1,	3752531.5,	495.2,	502.0,	2.0);		
(	472052.1,	3752531.2,	499.4,	512.0,	2.0);	(	471975.5,	3752531.2,	500.5,	514.0,	2.0);		
(	471896.1,	3752530.9,	503.4,	513.0,	2.0);	(	471840.8,	3752529.9,	503.4,	513.0,	2.0);		
(	471816.6,	3752527.1,	500.6,	513.0,	2.0);	(	471736.8,	3752557.9,	501.5,	501.5,	2.0);		
(	471696.6,	3752558.9,	500.0,	500.0,	2.0);	(	471627.3,	3752556.2,	501.9,	512.0,	2.0);		
(	471584.6,	3752556.8,	504.5,	507.0,	2.0);	(	471560.0,	3752556.2,	504.6,	507.0,	2.0);		
(	471534.3,	3752554.9,	503.2,	509.0,	2.0);	(	471514.9,	3752554.9,	502.2,	519.0,	2.0);		
(	471486.8,	3752555.7,	503.1,	503.1,	2.0);	(	471465.7,	3752555.4,					

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(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5,
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(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7,
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(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9,
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(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2,
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(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7,
497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5,
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(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8,
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(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8,
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(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2,
497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7,
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(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2,
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(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4,
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(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9,
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(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
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(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);
(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
(470462.0, 3751310.6, 512.6, 512.6, 2.0); (470462.6, 3751296.6, 512.4, 512.4, 2.0);
(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
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(470940.8, 3751191.8, 512.1, 512.1, 2.0); (471000.6, 3750923.6, 523.8, 523.8, 2.0);
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(471077.9, 3750924.4, 524.8, 543.0, 2.0); (471097.6, 3750924.4, 525.7, 543.0, 2.0);
(471118.2, 3750925.0, 528.0, 543.0, 2.0); (471139.0, 3750927.4, 529.8, 543.0, 2.0);
(471160.1, 3750928.8, 530.8, 543.0, 2.0); (471181.1, 3750931.5, 532.3, 543.0, 2.0);
(471201.7, 3750930.9, 533.3, 543.0, 2.0); (471222.5, 3750931.5, 533.7, 543.0, 2.0);
(471244.1, 3750931.2, 534.8, 543.0, 2.0); (471264.4, 3750931.7, 535.7, 538.0, 2.0);
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536.2, 536.2, 2.0);
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541.7, 549.0, 2.0);
(471624.0, 3750940.2, 545.0, 549.0, 2.0); (471795.9, 3750950.1,
548.4, 548.4, 2.0);
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545.3, 547.0, 2.0);
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542.0, 547.0, 2.0);
(471795.9, 3751046.4, 541.1, 541.1, 2.0); (471796.7, 3751073.0,
540.1, 540.1, 2.0);
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532.9, 532.9, 2.0);
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529.4, 529.4, 2.0);
(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0,
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(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1,
530.8, 530.8, 2.0);
(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5,
534.3, 534.3, 2.0);
(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9,
537.0, 537.0, 2.0);
(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
536.5, 536.5, 2.0);
(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
534.6, 534.6, 2.0);
(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1,
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523.2, 536.0, 2.0);
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(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3,
520.6, 532.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1,
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511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9,
509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3,
506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3,
506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0,

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    ( 472601.3, 3751352.0,     505.3,     505.3,       2.0);         ( 472606.8, 3751367.3,
    504.3,     504.3,        2.0);
    ( 472607.6, 3751396.4,     504.2,     504.2,       2.0);         ( 472608.5, 3751432.1,
    505.0,     505.0,        2.0);
    ( 472608.9, 3751462.6,     504.4,     504.4,       2.0);         ( 472609.5, 3751497.1,
    505.0,     505.0,        2.0);
    ( 472610.7, 3751553.8,     505.4,     505.4,       2.0);         ( 472666.0, 3751554.0,
    501.3,     501.3,        2.0);
    ( 472690.4, 3751553.6,     499.8,     499.8,       2.0);         ( 472713.5, 3751554.3,
    499.2,     499.2,        2.0);
    ( 472734.6, 3751554.0,     497.9,     497.9,       2.0);         ( 472759.5, 3751554.0,
    496.2,     496.2,        2.0);
    ( 472781.8, 3751554.5,     494.9,     499.0,       2.0);         ( 472849.8, 3751556.1,
    495.4,     495.4,        2.0);
    ( 472871.8, 3751556.1,     494.9,     494.9,       2.0);         ( 472895.2, 3751555.6,
    494.2,     494.2,        2.0);
    ( 472922.6, 3751555.9,     493.8,     493.8,       2.0);         ( 473092.4, 3751802.3,
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    ( 473204.8, 3751856.8,     481.6,     481.6,       2.0);         ( 472991.2, 3752083.3,
    484.1,     484.1,        2.0);
    ( 473295.1, 3752052.5,     478.7,     478.7,       2.0);         ( 473356.8, 3752050.3,
    476.8,     476.8,        2.0);
    ( 473495.1, 3751996.6,     476.0,     476.0,       2.0);         ( 473486.5, 3751917.7,
    475.8,     475.8,        2.0);
    ( 473392.6, 3752058.2,     475.9,     475.9,       2.0);         ( 473464.3, 3752082.6,
    475.2,     475.2,        2.0);
    ( 473550.3, 3752087.6,     473.0,     473.0,       2.0);         ( 473584.7, 3752089.8,
    473.0,     473.0,        2.0);
    ( 472765.6, 3752474.1,     477.2,     495.0,       2.0);         ( 470432.2, 3750483.9,
    532.6,     532.6,        2.0);
    ( 469244.1, 3754182.8,     471.3,     485.0,       2.0);         ( 469596.8, 3750785.6,
    493.4,     493.4,        2.0);
    ( 470466.5, 3750530.3,     535.0,     535.0,       2.0);         ( 469319.3, 3749244.5,
    500.0,     500.0,        2.0);
    ( 469229.6, 3749502.2,     503.4,     503.4,       2.0);         ( 468465.4, 3749582.3,
    490.5,     490.5,        2.0);
    ( 471438.4, 3750129.8,     539.2,     539.2,       2.0);         ( 471657.5, 3749918.8,
    535.4,     535.4,        2.0);
    ( 471732.9, 3749916.5,     534.7,     534.7,       2.0);         ( 471710.3, 3750132.8,
    537.0,     537.0,        2.0);
    ( 471273.9, 3750119.8,     540.5,     540.5,
    2.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***       14:03:18

                        PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                                 (1=YES; 0=NO)

              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
              1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
              1   1 1 1 1 1 1 1 1 1 1
```

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          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
              INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                    ***
                                                              (METERS/SEC)

                                                   1.54,   3.09,   5.14,   8.23,  10.80,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                       ***       14:03:18

                      PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                      *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC                                                              Met
   Version:  16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:     3171                  Upper air station no.:     3190
                  Name: UNKNOWN                                   Name:
                  UNKNOWN
                  Year:   2012                                    Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
 12 01 01   1 01  -25.6  0.266 -9.000 -9.000 -999.  330.     77.9  0.15   2.40   1.00    2.93
 55.   10.1  288.1    2.0
 12 01 01   1 02  -26.8  0.277 -9.000 -9.000 -999.  351.     84.7  0.15   2.40   1.00    3.05
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
```

```
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                     ***        14:03:18

                     PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                             SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                 VOL3        , VOL4        , VOL5        ,
                 VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                 VOL11       , VOL12       , VOL13       ,
                 VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                 VOL19       , VOL20       , VOL21       ,
                 VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                 VOL27       , VOL28       ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_2.5   IN
                                       MICROGRAMS/M**3                           **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)               X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
       472283.74   3752640.98        0.11034  (13100924)                472482.23
       3752398.04        0.14058m (13112124)
       472477.97   3752183.12        0.17879  (13121924)                472148.10
       3752531.53        0.17943  (13100924)
```

472052.12 3752531.22 0.20894 (13100924) 471975.52
3752531.22 0.22144 (13100924)
471896.06 3752530.90 0.23064 (13100924) 471840.76
3752529.94 0.23264 (13100924)
471816.60 3752527.08 0.23152 (13100924) 471736.82
3752557.91 0.21820 (13100924)
471696.59 3752558.87 0.21711 (13100924) 471627.29
3752556.22 0.22230 (13100924)
471584.60 3752556.76 0.22239 (13100924) 471560.01
3752556.22 0.22075 (13100924)
471534.35 3752554.87 0.22062 (16010624) 471514.89
3752554.87 0.22085 (16010624)
471486.79 3752555.68 0.22318 (16010624) 471465.72
3752555.41 0.22447 (16010624)
471442.21 3752554.98 0.22291 (16010624) 471419.71
3752552.46 0.22468 (16010624)
471394.22 3752552.91 0.22634 (16010624) 471363.44
3752552.46 0.23085 (16010624)
471332.68 3752553.31 0.23290 (16010624) 471307.62
3752552.94 0.23436 (16010624)
471284.05 3752552.70 0.23349 (16010624) 471261.98
3752552.70 0.23239 (16010624)
471241.90 3752552.70 0.23163 (16010624) 471223.15
3752552.86 0.23113 (16010624)
471205.90 3752552.86 0.23081 (16010624) 471173.21
3752552.37 0.23093 (16010624)
471135.70 3752552.53 0.23110 (16010624) 471093.22
3752551.54 0.23268 (16010624)
471059.37 3752551.70 0.23499 (16010624) 471020.54
3752551.20 0.23527 (16010624)
470981.05 3752563.65 0.20352 (16010524) 470980.39
3752552.20 0.21939 (16010524)
470980.06 3752535.61 0.24598 (16010524) 470979.89
3752517.19 0.27955 (16010524)
470980.06 3752499.76 0.31506 (14121224) 470980.22
3752479.85 0.33994 (14121224)
470980.39 3752459.44 0.35505 (14121224) 470980.22
3752433.22 0.36725 (14121224)
470980.06 3752404.02 0.39317 (12121324) 470927.12
3752402.69 0.25477 (14121224)
470907.87 3752402.69 0.23035 (14121224) 470887.30
3752402.69 0.20931 (14121224)
470869.71 3752402.03 0.19613 (14121224) 470849.63
3752401.86 0.18253 (14121224)
470829.39 3752402.19 0.17027 (14121224) 470811.63
3752402.19 0.16070 (14121224)
470791.55 3752402.53 0.15089 (14121224) 470773.63
3752401.86 0.14313 (14121224)
470749.24 3752402.19 0.13357 (14121224) 470727.72
3752391.74 0.12744 (14121224)
470733.04 3752338.97 0.13488 (14121224) 470733.70
3752320.55 0.13669 (14121224)
470734.20 3752291.01 0.13939 (14121224) 470733.20
3752265.78 0.14203 (15112724)
470732.87 3752218.81 0.14908 (15112724) 470732.54
3752182.14 0.15392 (15112724)
470732.37 3752145.29 0.15883 (15112724) 470692.38
3752144.80 0.14374 (15112724)
470670.14 3752144.46 0.13649 (15112724) 470651.72
3752144.30 0.13099 (15112724)
470633.46 3752144.13 0.12592 (15112724) 470615.54
3752143.97 0.12128 (15112724)
470595.95 3752143.30 0.11662 (15112724) 470577.03
3752143.47 0.11233 (15112724)
470553.63 3752143.47 0.10743 (15112724) 470528.57
3752142.64 0.10266 (15112724)

470507.99 3752142.80 0.09894 (15112724) 470485.59
3752142.47 0.09519 (15112724)
470471.60 3752131.63 0.09388 (15112724) 470471.60
3752109.21 0.09575 (15112724)
470471.32 3752085.22 0.09765 (15112724) 470471.46
3752037.68 0.10131 (15112724)
470471.74 3752013.00 0.10311 (15112724) 470470.89
3751987.18 0.10465 (15112724)
470470.89 3751965.74 0.10593 (15112724) 470470.75
3751944.44 0.10706 (15112724)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	0.10800	(15112724)	470470.47	3751905.93	0.10873	(15112724)
470470.89	3751884.06	0.10955	(15112724)	470470.61	3751864.03	0.11000	(15112724)
470470.33	3751844.00	0.11026	(15112724)	470470.19	3751824.53	0.11032	(15112724)
470470.33	3751805.77	0.11027	(15112724)	470470.33	3751788.00	0.11004	(15112724)
470470.33	3751761.19	0.10959	(15112724)	470471.03	3751741.87	0.10912	(15112724)
470470.05	3751722.82	0.10809	(15112724)	470470.19	3751703.36	0.10702	(15112724)
470470.19	3751683.75	0.10643	(14121624)	470470.33	3751664.28	0.10593	(14121624)
470470.33	3751642.41	0.10510	(14121624)	470470.47	3751621.82	0.10417	(14121624)
470470.19	3751599.81	0.10410c	(14123024)	470470.61	3751578.79	0.10569c	(14123024)
470469.62	3751555.94	0.10675c	(14123024)	470470.05	3751512.49	0.10861c	(14123024)
470468.64	3751414.59	0.10880c	(14123024)	470469.76	3751385.25	0.10853c	(14123024)
470468.65	3751358.95	0.10735c	(14123024)	470462.93	3751325.56	0.10464c	(14123024)
470461.98	3751310.62	0.10368c	(14123024)	470462.61	3751296.63	0.10352	(13012524)
470462.61	3751283.28	0.10364	(13012524)	470462.61	3751269.92	0.10370	(13012524)

```
      470462.93   3751254.35        0.10369  (13012524)               470461.98
      3751240.67        0.10353  (13012524)
      470463.25   3751227.64        0.10362  (13012524)               470756.39
      3751290.59        0.20326  (12121324)
      470797.72   3751268.33        0.21643  (12121324)               470891.19
      3751226.38        0.23893  (12121324)
      470940.78   3751191.82        0.23324  (12121324)               471000.61
      3750923.63        0.15013  (12121324)
      471029.26   3750923.63        0.15189  (12121324)               471056.29
      3750923.90        0.15265  (12121324)
      471077.91   3750924.44        0.15247  (12121324)               471097.64
      3750924.44        0.15156  (12121324)
      471118.18   3750924.98        0.14990  (12121324)               471138.99
      3750927.42        0.14869  (12121324)
      471160.07   3750928.77        0.14731  (12121324)               471181.15
      3750931.47        0.14709  (12121324)
      471201.69   3750930.93        0.14566  (12121324)               471222.50
      3750931.47        0.14380  (12121324)
      471244.13   3750931.20        0.14143  (12121324)               471264.40
      3750931.74        0.13896  (12121324)
      471284.40   3750931.74        0.13632  (12121324)               471305.75
      3750931.74        0.13356m (14123124)
      471324.67   3750930.93        0.13288m (14123124)               471343.05
      3750930.12        0.13195m (14123124)
      471363.86   3750929.04        0.12998m (14123124)               471381.96
      3750928.77        0.12763m (14123124)
      471400.88   3750928.23        0.12412m (14123124)               471421.15
      3750927.96        0.11913m (14123124)
      471440.59   3750928.11        0.12072  (15122824)               471461.83
      3750927.45        0.12230  (15122824)
      471479.76   3750927.95        0.12373  (15122824)               471499.68
      3750927.62        0.12492  (15122824)
      471519.26   3750928.78        0.12634  (15122824)               471537.02
      3750929.61        0.12716  (15122824)
      471556.77   3750930.94        0.12784  (15122824)               471580.68
      3750934.09        0.12870  (15122824)
      471624.00   3750940.23        0.12827  (15122824)               471795.90
      3750950.11        0.11028  (15122824)
      471796.29   3750967.88        0.11427  (15122824)               471796.69
      3750987.22        0.11922  (15122824)
      471797.47   3751006.75        0.12477  (15122824)               471796.69
      3751025.30        0.12988  (15122824)
      471795.90   3751046.40        0.13597  (15122824)               471796.69
      3751072.96        0.14365  (15122824)
      471797.47   3751143.85        0.16628  (15122824)               471833.01
      3751143.85        0.15519  (15122824)
      471867.38   3751144.05        0.14594  (15122824)               471891.02
      3751144.44        0.14056  (15122824)
      471916.60   3751144.24        0.13480  (15122824)               471939.45
      3751144.24        0.12964  (15122824)
      471963.08   3751144.44        0.12557  (15122824)               471984.17
      3751144.05        0.12114  (15122824)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:03:18

                    PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                VOL11       , VOL12       , VOL13       ,
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VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	0.12046	(15122824)	472000.19	3751199.12	0.12339	(15122824)
471999.80	3751230.56	0.12757	(15122824)	472000.38	3751251.46	0.13021	(15122824)
472000.19	3751281.15	0.13533	(13112024)	472001.95	3751347.94	0.15418	(13112024)
472036.90	3751348.52	0.14452	(13112024)	472063.07	3751349.31	0.13819	(13112024)
472084.56	3751348.33	0.13344	(13112024)	472104.87	3751348.72	0.12993	(13112024)
472127.33	3751348.52	0.12637	(13112024)	472150.76	3751349.70	0.12329	(13112024)
472171.47	3751349.50	0.12040	(13112024)	472194.12	3751349.11	0.11792	(13112024)
472222.63	3751348.72	0.11524	(13112024)	472247.83	3751349.50	0.11331	(13112024)
472269.70	3751349.11	0.11188	(13112024)	472290.40	3751350.28	0.11001	(13112024)
472313.64	3751350.48	0.10776	(13112024)	472333.76	3751351.26	0.10628	(13112024)
472354.85	3751351.26	0.10561	(13112024)	472377.70	3751351.06	0.10519	(13112024)
472401.72	3751351.06	0.10478	(13112024)	472425.55	3751351.84	0.10340	(13112024)
472445.67	3751350.67	0.10193	(13112024)	472463.24	3751350.87	0.10090	(13112024)
472484.14	3751350.87	0.09958	(13112024)	472503.87	3751351.26	0.09827	(13112024)
472523.79	3751351.26	0.09681	(13112024)	472543.32	3751351.26	0.09530	(13112024)
472563.24	3751352.24	0.09389	(13112024)	472582.57	3751352.04	0.09233	(13112024)
472601.32	3751352.04	0.09086	(13112024)	472606.79	3751367.27	0.09245	(13112024)
472607.57	3751396.37	0.09644	(13112024)	472608.55	3751432.11	0.10189	(13112024)
472608.94	3751462.58	0.10737	(13112024)	472609.52	3751497.15	0.11466	(13112024)
472610.70	3751553.78	0.13084	(13112024)	472665.97	3751553.98	0.12534	(13112024)
472690.38	3751553.59	0.12312	(13112024)	472713.50	3751554.27	0.12160	(13112024)
472734.64	3751554.04	0.12009	(13112024)	472759.46	3751554.04	0.11852	(13112024)
472781.75	3751554.50	0.11727	(13112024)	472849.76	3751556.11	0.11258	(13112024)
472871.82	3751556.11	0.11026	(13112024)	472895.25	3751555.65	0.10738	(13112024)
472922.60	3751555.88	0.10413	(13112024)	473092.41	3751802.31	0.20048	(12042324)
473204.80	3751856.81	0.16212	(13111924)	472991.21	3752083.31	0.17772m	(13112124)

```
       473295.12   3752052.49        0.11337m (13112124)                473356.76
       3752050.34        0.09908  (15042424)
       473495.10   3751996.58        0.08975  (15042424)                473486.50
       3751917.74        0.09385  (12050124)
       473392.60   3752058.22        0.09339  (13020524)                473464.28
       3752082.59        0.08624  (13020524)
       473550.29   3752087.61        0.08031  (13020524)                473584.69
       3752089.76        0.07829  (13020524)
       472765.59   3752474.09        0.10196m (13112124)                470432.16
       3750483.93        0.08398  (12121324)
       469244.06   3754182.82        0.02039  (16091624)                469596.75
       3750785.65        0.06885  (13012524)
       470466.55   3750530.27        0.08709  (12121324)                469319.29
       3749244.53        0.03136  (12010224)
       469229.64   3749502.19        0.03076  (12010324)                468465.38
       3749582.33        0.04158  (13012524)
       471438.37   3750129.76        0.04172  (16011524)                471657.54
       3749918.78        0.03889  (15122824)
       471732.91   3749916.52        0.03896  (15122824)                471710.30
       3750132.80        0.04567  (15122824)
       471273.89   3750119.77        0.03848
       (16011524)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                     PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                    ** CONC OF PM_2.5   IN
                                    MICROGRAMS/M**3                        **


                                                  DATE
                                                                          NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       0.39317  ON 12121324: AT (  470980.06,  3752404.02,
506.00,   506.00,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        12/15/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:03:18

                     PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
```

A Total of   1638 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1039 Calm Hours Identified

A Total of   599 Missing Hours Identified (1.37 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 915 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 915 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

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APPENDIX 5.6:

AERMOD LST MODELING OUTPUTS - OPERATION

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops CO\14064 Ops
CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
```

```
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL2         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL3         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL4         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL5         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL6         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL7         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL8         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL9         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL10        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL11        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL12        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL13        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL14        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL15        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL16        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL17        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL18        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL19        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL20        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL21        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL22        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL23        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL24        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL25        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL26        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL27        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL28        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL29        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL30        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL31        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL32        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL33        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL34        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL35        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL36        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL37        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL38        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL39        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL40        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL41        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL48        0.0821506181     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
```

```
   INCLUDED "14064 Ops CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14064 OPS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14064 Ops CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops CO\14064 Ops
CO.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
```

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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL2         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL3         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL4         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL5         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL6         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL7         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL8         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL9         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL10        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL11        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL12        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL13        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL14        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL15        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL16        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL17        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL18        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL19        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL20        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL21        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL22        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL23        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL24        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL25        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL26        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL27        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL28        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL29        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL30        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL31        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL32        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL33        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL34        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL35        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL36        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL37        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL38        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL39        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL40        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL41        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL48        0.0821506181     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14064 OPS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14064 Ops CO.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:38:00

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
```

```
** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: CO

**Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                     ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
CO.err
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1	0	0.82151E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40
YES								
VOL2	0	0.82151E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40
YES								
VOL3	0	0.82151E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40
YES								
VOL4	0	0.82151E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40
YES								
VOL5	0	0.82151E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40
YES								
VOL6	0	0.82151E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40
YES								
VOL7	0	0.82151E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40
YES								
VOL8	0	0.82151E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40
YES								
VOL9	0	0.82151E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40
YES								
VOL10	0	0.82151E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40
YES								
VOL11	0	0.82151E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40
YES								
VOL12	0	0.82151E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40
YES								
VOL13	0	0.82151E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40
YES								
VOL14	0	0.82151E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40
YES								
VOL15	0	0.82151E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40
YES								
VOL16	0	0.82151E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40
YES								
VOL17	0	0.82151E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40
YES								
VOL18	0	0.82151E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40
YES								
VOL19	0	0.82151E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40
YES								
VOL20	0	0.82151E-01	471845.1	3751780.0	538.8	5.00	43.70	1.40
YES								
VOL21	0	0.82151E-01	471657.2	3751803.8	536.0	5.00	43.70	1.40
YES								
VOL22	0	0.82151E-01	471468.5	3751806.2	528.3	5.00	43.70	1.40
YES								

```
 VOL23           0   0.82151E-01  471280.5 3751807.0   525.0     5.00    43.70     1.40
 YES
 VOL24           0   0.82151E-01  471093.4 3751841.9   515.6     5.00    43.70     1.40
 YES
 VOL25           0   0.82151E-01  470978.4 3751841.9   518.1     5.00    43.70     1.40
 YES
 VOL26           0   0.82151E-01  471014.1 3751654.8   520.4     5.00    43.70     1.40
 YES
 VOL27           0   0.82151E-01  471201.2 3751654.8   525.1     5.00    43.70     1.40
 YES
 VOL28           0   0.82151E-01  471389.2 3751619.1   534.9     5.00    43.70     1.40
 YES
 VOL29           0   0.82151E-01  471577.9 3751616.7   529.0     5.00    43.70     1.40
 YES
 VOL30           0   0.82151E-01  471724.6 3751620.7   533.8     5.00    43.70     1.40
 YES
 VOL31           0   0.82151E-01  471941.0 3751865.7   534.6     5.00    43.70     1.40
 YES
 VOL32           0   0.82151E-01  471795.2 3751684.9   537.3     5.00    43.70     1.40
 YES
 VOL33           0   0.82151E-01  471577.9 3751434.3   531.1     5.00    43.70     1.40
 YES
 VOL34           0   0.82151E-01  471390.0 3751431.9   537.3     5.00    43.70     1.40
 YES
 VOL35           0   0.82151E-01  471202.0 3751467.6   526.8     5.00    43.70     1.40
 YES
 VOL36           0   0.82151E-01  471065.7 3751504.9   522.0     5.00    43.70     1.40
 YES
 VOL37           0   0.82151E-01  471656.4 3751514.4   529.5     5.00    43.70     1.40
 YES
 VOL38           0   0.82151E-01  471522.4 3751324.1   529.0     5.00    43.70     1.40
 YES
 VOL39           0   0.82151E-01  471332.9 3751322.5   529.5     5.00    43.70     1.40
 YES
 VOL40           0   0.82151E-01  471282.9 3751321.7   528.2     5.00    43.70     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       08:38:00

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - -

 VOL41           0   0.82151E-01  471233.8 3751388.3   528.5     5.00    43.70     1.40
 YES
 VOL48           0   0.82151E-01  471084.5 3752407.2   506.8     5.00    43.70     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       08:38:00

                     PAGE   4
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL48 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
		VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
		VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
		VOL41 , VOL48 ,

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0, 499.3, 499.3, 2.0);
(472478.0, 3752183.1, 505.1, 505.1, 2.0); (472148.1, 3752531.5, 495.2, 502.0, 2.0);
(472052.1, 3752531.2, 499.4, 512.0, 2.0); (471975.5, 3752531.2, 500.5, 514.0, 2.0);
(471896.1, 3752530.9, 503.4, 513.0, 2.0); (471840.8, 3752529.9, 503.4, 513.0, 2.0);
(471816.6, 3752527.1, 500.6, 513.0, 2.0); (471736.8, 3752557.9, 501.5, 501.5, 2.0);
(471696.6, 3752558.9, 500.0, 500.0, 2.0); (471627.3, 3752556.2, 501.9, 512.0, 2.0);
(471584.6, 3752556.8, 504.5, 507.0, 2.0); (471560.0, 3752556.2, 504.6, 507.0, 2.0);
(471534.3, 3752554.9, 503.2, 509.0, 2.0); (471514.9, 3752554.9, 502.2, 519.0, 2.0);
(471486.8, 3752555.7, 503.1, 503.1, 2.0); (471465.7, 3752555.4, 503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5, 500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5, 503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9, 506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7, 505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9, 505.9, 505.9, 2.0);
(471205.9, 3752552.9, 506.2, 506.2, 2.0); (471173.2, 3752552.4, 506.5, 506.5, 2.0);
(471135.7, 3752552.5, 506.1, 506.1, 2.0); (471093.2, 3752551.5, 505.4, 505.4, 2.0);
(471059.4, 3752551.7, 504.7, 504.7, 2.0); (471020.5, 3752551.2, 503.1, 503.1, 2.0);
(470981.0, 3752563.6, 502.1, 502.1, 2.0); (470980.4, 3752552.2, 502.5, 502.5, 2.0);
(470980.1, 3752535.6, 503.0, 503.0, 2.0); (470979.9, 3752517.2, 503.7, 503.7, 2.0);
(470980.1, 3752499.8, 504.0, 504.0, 2.0); (470980.2, 3752479.8, 504.0, 504.0, 2.0);
(470980.4, 3752459.4, 504.6, 504.6, 2.0); (470980.2, 3752433.2, 505.4, 505.4, 2.0);
(470980.1, 3752404.0, 506.0, 506.0, 2.0); (470927.1, 3752402.7, 504.9, 504.9, 2.0);
(470907.9, 3752402.7, 503.1, 503.1, 2.0); (470887.3, 3752402.7, 500.9, 505.0, 2.0);
(470869.7, 3752402.0, 500.7, 500.7, 2.0); (470849.6, 3752401.9, 500.3, 500.3, 2.0);
(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2, 499.7, 499.7, 2.0);
(470791.5, 3752402.5, 499.2, 499.2, 2.0); (470773.6, 3752401.9, 498.6, 498.6, 2.0);
(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7, 497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5, 500.2, 500.2, 2.0);
(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8, 500.8, 500.8, 2.0);
(470732.9, 3752218.8, 501.2, 501.2, 2.0); (470732.5, 3752182.1, 501.8, 501.8, 2.0);
(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8, 502.5, 502.5, 2.0);
(470670.1, 3752144.5, 502.1, 502.1, 2.0); (470651.7, 3752144.3,

502.0, 502.0, 2.0);
(470633.5, 3752144.1, 501.5, 501.5, 2.0); (470615.5, 3752144.0, 500.9, 500.9, 2.0);
(470596.0, 3752143.3, 500.2, 500.2, 2.0); (470577.0, 3752143.5, 500.0, 500.0, 2.0);
(470553.6, 3752143.5, 499.7, 499.7, 2.0); (470528.6, 3752142.6, 498.8, 498.8, 2.0);
(470508.0, 3752142.8, 497.6, 497.6, 2.0); (470485.6, 3752142.5, 496.3, 496.3, 2.0);
(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2, 497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7, 499.7, 499.7, 2.0);
(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2, 500.1, 500.1, 2.0);
(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9, 499.0, 499.0, 2.0);
(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);
(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
(470462.0, 3751310.6, 512.6, 512.6, 2.0); (470462.6, 3751296.6, 512.4, 512.4, 2.0);
(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
(470462.9, 3751254.3, 509.6, 512.0, 2.0); (470462.0, 3751240.7, 508.9, 508.9, 2.0);
(470463.2, 3751227.6, 509.4, 509.4, 2.0); (470756.4, 3751290.6, 507.7, 525.0, 2.0);
(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
(470940.8, 3751191.8, 512.1, 512.1, 2.0); (471000.6, 3750923.6, 523.8, 523.8, 2.0);
(471029.3, 3750923.6, 523.7, 523.7, 2.0); (471056.3, 3750923.9,

524.2, 542.0, 2.0);
(471077.9, 3750924.4, 524.8, 543.0, 2.0); (471097.6, 3750924.4,
525.7, 543.0, 2.0);
(471118.2, 3750925.0, 528.0, 543.0, 2.0); (471139.0, 3750927.4,
529.8, 543.0, 2.0);
(471160.1, 3750928.8, 530.8, 543.0, 2.0); (471181.1, 3750931.5,
532.3, 543.0, 2.0);
(471201.7, 3750930.9, 533.3, 543.0, 2.0); (471222.5, 3750931.5,
533.7, 543.0, 2.0);
(471244.1, 3750931.2, 534.8, 543.0, 2.0); (471264.4, 3750931.7,
535.7, 538.0, 2.0);
(471284.4, 3750931.7, 536.5, 536.5, 2.0); (471305.8, 3750931.7,
536.5, 536.5, 2.0);
(471324.7, 3750930.9, 535.8, 535.8, 2.0); (471343.0, 3750930.1,
534.9, 534.9, 2.0);
(471363.9, 3750929.0, 534.7, 534.7, 2.0); (471382.0, 3750928.8,
534.8, 534.8, 2.0);
(471400.9, 3750928.2, 535.0, 535.0, 2.0); (471421.1, 3750928.0,
535.4, 535.4, 2.0);
(471440.6, 3750928.1, 535.6, 535.6, 2.0); (471461.8, 3750927.4,
535.7, 535.7, 2.0);
(471479.8, 3750927.9, 535.9, 535.9, 2.0); (471499.7, 3750927.6,
536.2, 536.2, 2.0);
(471519.3, 3750928.8, 536.6, 549.0, 2.0); (471537.0, 3750929.6,
538.0, 549.0, 2.0);
(471556.8, 3750930.9, 539.6, 549.0, 2.0); (471580.7, 3750934.1,
541.7, 549.0, 2.0);
(471624.0, 3750940.2, 545.0, 549.0, 2.0); (471795.9, 3750950.1,
548.4, 548.4, 2.0);
(471796.3, 3750967.9, 547.3, 547.3, 2.0); (471796.7, 3750987.2,
545.3, 547.0, 2.0);
(471797.5, 3751006.8, 542.7, 549.0, 2.0); (471796.7, 3751025.3,
542.0, 547.0, 2.0);
(471795.9, 3751046.4, 541.1, 541.1, 2.0); (471796.7, 3751073.0,
540.1, 540.1, 2.0);
(471797.5, 3751143.8, 537.7, 537.7, 2.0); (471833.0, 3751143.8,
537.0, 537.0, 2.0);
(471867.4, 3751144.0, 534.9, 534.9, 2.0); (471891.0, 3751144.4,
532.9, 532.9, 2.0);
(471916.6, 3751144.2, 530.9, 530.9, 2.0); (471939.5, 3751144.2,
529.4, 529.4, 2.0);
(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0,
524.4, 533.0, 2.0);
(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1,
530.8, 530.8, 2.0);
(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5,
534.3, 534.3, 2.0);
(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9,
537.0, 537.0, 2.0);
(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
536.5, 536.5, 2.0);
(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
534.6, 534.6, 2.0);
(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1,
528.2, 531.0, 2.0);
(472222.6, 3751348.7, 525.4, 536.0, 2.0); (472247.8, 3751349.5,
523.2, 536.0, 2.0);
(472269.7, 3751349.1, 520.9, 536.0, 2.0); (472290.4, 3751350.3,
520.7, 535.0, 2.0);
(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3,
520.6, 532.0, 2.0);
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/07/22
 *** AERMET - VERSION 16216 ***

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
(472401.7, 3751351.1, 513.6, 533.0, 2.0); (472425.5, 3751351.8, 511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9, 509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3, 506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3, 506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0, 505.8, 505.8, 2.0);
(472601.3, 3751352.0, 505.3, 505.3, 2.0); (472606.8, 3751367.3, 504.3, 504.3, 2.0);
(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
(472608.9, 3751462.6, 504.4, 504.4, 2.0); (472609.5, 3751497.1, 505.0, 505.0, 2.0);
(472610.7, 3751553.8, 505.4, 505.4, 2.0); (472666.0, 3751554.0, 501.3, 501.3, 2.0);
(472690.4, 3751553.6, 499.8, 499.8, 2.0); (472713.5, 3751554.3, 499.2, 499.2, 2.0);
(472734.6, 3751554.0, 497.9, 497.9, 2.0); (472759.5, 3751554.0, 496.2, 496.2, 2.0);
(472781.8, 3751554.5, 494.9, 499.0, 2.0); (472849.8, 3751556.1, 495.4, 495.4, 2.0);
(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
(472922.6, 3751555.9, 493.8, 493.8, 2.0); (473092.4, 3751802.3, 486.1, 486.1, 2.0);
(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
(473295.1, 3752052.5, 478.7, 478.7, 2.0); (473356.8, 3752050.3, 476.8, 476.8, 2.0);
(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);
(472765.6, 3752474.1, 477.2, 495.0, 2.0); (470432.2, 3750483.9, 532.6, 532.6, 2.0);
(469244.1, 3754182.8, 471.3, 485.0, 2.0); (469596.8, 3750785.6, 493.4, 493.4, 2.0);
(470466.5, 3750530.3, 535.0, 535.0, 2.0); (469319.3, 3749244.5, 500.0, 500.0, 2.0);
(469229.6, 3749502.2, 503.4, 503.4, 2.0); (468465.4, 3749582.3, 490.5, 490.5, 2.0);
(471438.4, 3750129.8, 539.2, 539.2, 2.0); (471657.5, 3749918.8, 535.4, 535.4, 2.0);
(471732.9, 3749916.5, 534.7, 534.7, 2.0); (471710.3, 3750132.8, 537.0, 537.0, 2.0);
(471273.9, 3750119.8, 540.5, 540.5, 2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KRAL_V9_ADJU\KRAL_v9.SFC Met
Version: 16216
Profile file:
KRAL_V9_ADJU\KRAL_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93				

```
 55.   10.1  288.1    2.0
 12 01 01   1 02  -26.8  0.277 -9.000 -9.000 -999.  351.     84.7  0.15   2.40   1.00    3.05
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        08:38:00

                      PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
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VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	17.64716	(14051521)	472482.23	3752398.04	16.19824	(12041107)
472477.97	3752183.12	16.17354	(15092020)	472148.10	3752531.53	32.89728	(13112916)
472052.12	3752531.22	39.41013	(13112916)	471975.52	3752531.22	29.89334	(13112916)
471896.06	3752530.90	31.75158	(13062606)	471840.76	3752529.94	32.66511	(13062606)
471816.60	3752527.08	33.03493	(13062606)	471736.82	3752557.91	31.50584	(13112916)
471696.59	3752558.87	34.32844	(13112916)	471627.29	3752556.22	33.52200	(13112916)
471584.60	3752556.76	34.19560	(13062606)	471560.01	3752556.22	34.34137	(13062606)
471534.35	3752554.87	34.26724	(13062606)	471514.89	3752554.87	33.98343	(13062606)
471486.79	3752555.68	33.74150	(13062606)	471465.72	3752555.41	33.57643	(13062606)
471442.21	3752554.98	33.21146	(13062606)	471419.71	3752552.46	33.22052	(13062606)
471394.22	3752552.91	33.12678	(13062606)	471363.44	3752552.46	33.21592	(13062606)
471332.68	3752553.31	33.10097	(13062606)	471307.62	3752552.94	33.05067	(13062606)
471284.05	3752552.70	32.88799	(13062606)	471261.98	3752552.70	32.77485	(13062606)
471241.90	3752552.70	32.73765	(13062606)	471223.15	3752552.86	32.73836	(13062606)
471205.90	3752552.86	32.76450	(13062606)	471173.21	3752552.37	32.83478	(13062606)
471135.70	3752552.53	32.53117	(13062606)	471093.22	3752551.54	31.71942	(15100406)
471059.37	3752551.70	31.84166	(15062802)	471020.54	3752551.20	29.74906	(15062802)
470981.05	3752563.65	26.43486	(13083019)	470980.39	3752552.20	27.36306	(13083019)
470980.06	3752535.61	28.75244	(13083019)	470979.89	3752517.19	30.29682	(13083019)
470980.06	3752499.76	31.63391	(13083019)	470980.22	3752479.85	33.52598	(14090307)
470980.39	3752459.44	38.41493	(14090307)	470980.22	3752433.22	41.45159	(14090307)
470980.06	3752404.02	40.70916	(13062606)	470927.12	3752402.69	30.19638	(13062606)
470907.87	3752402.69	27.76582	(13062606)	470887.30	3752402.69	25.60268	(13062606)
470869.71	3752402.03	24.14986	(13062606)	470849.63	3752401.86	22.69214	(13062606)
470829.39	3752402.19	21.39746	(13062606)	470811.63	3752402.19	20.39330	(13062606)

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       470791.55   3752402.53       19.35948  (13062606)                470773.63
       3752401.86       18.53909  (15042903)
       470749.24   3752402.19       17.70218  (15042903)                470727.72
       3752391.74       17.16161  (15042903)
       470733.04   3752338.97       18.00190  (13062606)                470733.70
       3752320.55       18.32257  (13062606)
       470734.20   3752291.01       18.81087  (13062606)                470733.20
       3752265.78       19.13218  (13062606)
       470732.87   3752218.81       19.78230  (13062606)                470732.54
       3752182.14       20.27552  (13062606)
       470732.37   3752145.29       20.79123  (13062606)                470692.38
       3752144.80       18.94021  (13062606)
       470670.14   3752144.46       18.02374  (13062606)                470651.72
       3752144.30       17.32692  (13062606)
       470633.46   3752144.13       16.66434  (13062606)                470615.54
       3752143.97       16.05204  (13062606)
       470595.95   3752143.30       15.42697  (13062606)                470577.03
       3752143.47       14.93537  (14091620)
       470553.63   3752143.47       14.53248  (15071822)                470528.57
       3752142.64       14.12788  (15071820)
       470507.99   3752142.80       13.77404  (15071820)                470485.59
       3752142.47       13.40616  (15071820)
       470471.60   3752131.63       13.26959  (15071820)                470471.60
       3752109.21       13.43803  (15071820)
       470471.32   3752085.22       13.58464  (15071820)                470471.46
       3752037.68       13.90088  (15071822)
       470471.74   3752013.00       14.03946  (12010420)                470470.89
       3751987.18       14.14340  (16111021)
       470470.89   3751965.74       14.25745  (16111021)                470470.75
       3751944.44       14.35581  (16111021)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:38:00

                     PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                  VOL11       , VOL12       , VOL13       ,
                  VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                  VOL19       , VOL20       , VOL21       ,
                  VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                  VOL27       , VOL28       ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF CO       IN
                                        MICROGRAMS/M**3                          **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
       470470.61   3751924.27       14.40563  (16111021)                470470.47
       3751905.93       14.42115  (16111021)
       470470.89   3751884.06       14.51082  (16110919)                470470.61
       3751864.03       14.56307  (16110919)
       470470.33   3751844.00       14.56837  (16110919)                470470.19
       3751824.53       14.51114  (16110919)
       470470.33   3751805.77       14.49292  (16110818)                470470.33
       3751788.00       14.47569  (16110818)
```

470470.33 3751761.19 14.72022 (16110818) 470471.03
3751741.87 14.89801 (16110818)
470470.05 3751722.82 15.02488 (16110818) 470470.19
3751703.36 15.21696 (14051420)
470470.19 3751683.75 15.40192 (14051420) 470470.33
3751664.28 15.54913 (14051420)
470470.33 3751642.41 15.68819 (14051420) 470470.47
3751621.82 15.76339 (14051420)
470470.19 3751599.81 15.78534 (14051420) 470470.61
3751578.79 15.77080 (14051420)
470469.62 3751555.94 15.60833 (14051420) 470470.05
3751512.49 15.26258 (14051420)
470468.64 3751414.59 14.56513 (16062003) 470469.76
3751385.25 14.89533 (16062003)
470468.65 3751358.95 14.95247 (16062003) 470462.93
3751325.56 14.84402 (16062003)
470461.98 3751310.62 14.79986 (13050223) 470462.61
3751296.63 14.74959 (13050223)
470462.61 3751283.28 14.67101 (13050223) 470462.61
3751269.92 14.56215 (13050223)
470462.93 3751254.35 14.42449 (13050223) 470461.98
3751240.67 14.29745 (13050223)
470463.25 3751227.64 14.25492 (13050223) 470756.39
3751290.59 19.56913 (14100421)
470797.72 3751268.33 20.26015 (14100421) 470891.19
3751226.38 22.57832 (13083002)
470940.78 3751191.82 23.44801 (15090923) 471000.61
3750923.63 21.03173 (15031222)
471029.26 3750923.63 21.24153 (15031222) 471056.29
3750923.90 22.12307 (14072222)
471077.91 3750924.44 22.87590 (14072222) 471097.64
3750924.44 25.09774 (14072222)
471118.18 3750924.98 27.76945 (15073004) 471138.99
3750927.42 30.52540 (14070703)
471160.07 3750928.77 32.99643 (14070703) 471181.15
3750931.47 37.73506 (12111622)
471201.69 3750930.93 40.34995 (12111622) 471222.50
3750931.47 41.48298 (15102720)
471244.13 3750931.20 43.63257 (15102720) 471264.40
3750931.74 45.32097 (15102720)
471284.40 3750931.74 46.48394 (13090322) 471305.75
3750931.74 47.11097 (13090322)
471324.67 3750930.93 45.95718 (13090322) 471343.05
3750930.12 44.69638 (13070301)
471363.86 3750929.04 43.73252 (14092602) 471381.96
3750928.77 43.44108 (14092602)
471400.88 3750928.23 43.38460 (15091223) 471421.15
3750927.96 43.15695 (15091223)
471440.59 3750928.11 42.51880 (12091920) 471461.83
3750927.45 41.80963 (12091920)
471479.76 3750927.95 41.25404 (13090522) 471499.68
3750927.62 40.85692 (13090522)
471519.26 3750928.78 40.41895 (13090522) 471537.02
3750929.61 41.14048 (13090522)
471556.77 3750930.94 41.27304 (13090522) 471580.68
3750934.09 43.02480 (13090522)
471624.00 3750940.23 43.95750 (13090322) 471795.90
3750950.11 42.26919 (14070402)
471796.29 3750967.88 42.72465 (14070402) 471796.69
3750987.22 42.94758 (15100222)
471797.47 3751006.75 42.49553 (15100222) 471796.69
3751025.30 42.63065 (15100222)
471795.90 3751046.40 42.92199 (12092021) 471796.69
3751072.96 42.97406 (12092021)
471797.47 3751143.85 42.77885 (12092021) 471833.01
3751143.85 40.11401 (12092021)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	20.72974	(15041821)	472000.19	3751199.12	23.16234	(15092721)
471999.80	3751230.56	28.03502	(16061922)	472000.38	3751251.46	31.46523	(16061922)
472000.19	3751281.15	33.60673	(14091022)	472001.95	3751347.94	37.09936	(12080621)
472036.90	3751348.52	33.50732	(12080624)	472063.07	3751349.31	32.09993	(12080524)
472084.56	3751348.33	30.61735	(13063022)	472104.87	3751348.72	28.67628	(13082222)
472127.33	3751348.52	25.65746	(12081422)	472150.76	3751349.70	22.63680	(14091223)
472171.47	3751349.50	21.13078	(12081622)	472194.12	3751349.11	20.44289	(15081620)
472222.63	3751348.72	19.47495	(16082920)	472247.83	3751349.50	18.64777	(16082920)
472269.70	3751349.11	17.53741	(16082920)	472290.40	3751350.28	17.18674	(16082920)
472313.64	3751350.48	16.82326	(16082920)	472333.76	3751351.26	16.47612	(16082920)
472354.85	3751351.26	15.72701	(16082920)	472377.70	3751351.06	15.07823	(16082920)
472401.72	3751351.06	14.39704	(16081620)	472425.55	3751351.84	13.59237	(15102418)
472445.67	3751350.67	13.36272	(15102418)	472463.24	3751350.87	12.98441	(15102418)
472484.14	3751350.87	12.68293	(15102418)	472503.87	3751351.26	12.46179	(15102418)
472523.79	3751351.26	12.29157	(15102418)	472543.32	3751351.26	12.13978	(15102418)
472563.24	3751352.24	11.96372	(15102418)	472582.57	3751352.04	11.78908	(15102418)

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      472601.32   3751352.04       11.61661  (15102418)                472606.79
      3751367.27       11.57253  (15091321)
      472607.57   3751396.37       11.69320  (15091321)                472608.55
      3751432.11       11.87098  (15070221)
      472608.94   3751462.58       11.97371  (15070221)                472609.52
      3751497.15       12.15291  (14072920)
      472610.70   3751553.78       12.47580  (12080920)                472665.97
      3751553.98       11.80565  (12080920)
      472690.38   3751553.59       11.53564  (12080920)                472713.50
      3751554.27       11.33819  (12080920)
      472734.64   3751554.04       11.12297  (12080920)                472759.46
      3751554.04       10.87037  (12080920)
      472781.75   3751554.50       10.66476  (12080920)                472849.76
      3751556.11       10.25695  (12080920)
      472871.82   3751556.11       10.09863  (12080920)                472895.25
      3751555.65        9.92399  (12080920)
      472922.60   3751555.88        9.74759  (12080920)                473092.41
      3751802.31        8.96425  (13082619)
      473204.80   3751856.81        8.37927  (13082920)                472991.21
      3752083.31        9.70394  (16082919)
      473295.12   3752052.49        7.92127  (13090121)                473356.76
      3752050.34        7.61392  (12080821)
      473495.10   3751996.58        7.09562  (13070920)                473486.50
      3751917.74        7.11018  (13082920)
      473392.60   3752058.22        7.45682  (13090121)                473464.28
      3752082.59        7.18956  (13090121)
      473550.29   3752087.61        6.84260  (13090121)                473584.69
      3752089.76        6.73161  (13090121)
      472765.59   3752474.09       10.95985  (16062023)                470432.16
      3750483.93       19.11256  (16100620)
      469244.06   3754182.82        4.18404  (14091624)                469596.75
      3750785.65        7.08893  (15021122)
      470466.55   3750530.27       21.86318  (12091321)                469319.29
      3749244.53        4.37562  (15100924)
      469229.64   3749502.19        4.62820  (15031221)                468465.38
      3749582.33        3.76795  (14051321)
      471438.37   3750129.76       24.42000  (16102220)                471657.54
      3749918.78       18.25011  (14092602)
      471732.91   3749916.52       17.31982  (15091223)                471710.30
      3750132.80       21.47345  (15091223)
      471273.89   3750119.77       25.63044
      (15073004)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        08:38:00

                    PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                          *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                              INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                              VOL3        , VOL4        , VOL5        ,
               VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
               VOL11       , VOL12       , VOL13       ,
               VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
               VOL19       , VOL20       , VOL21       ,
               VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
               VOL27       , VOL28       ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF CO       IN
                                    MICROGRAMS/M**3                          **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	12.45784	(15111008)	472482.23	3752398.04	11.24129m	(16031408)
472477.97	3752183.12	13.68744m	(12050224)	472148.10	3752531.53	18.06675c	(12121708)
472052.12	3752531.22	22.79641c	(12121708)	471975.52	3752531.22	25.59302c	(12121708)
471896.06	3752530.90	27.22250c	(12121708)	471840.76	3752529.94	28.00402c	(12121708)
471816.60	3752527.08	28.29472c	(12121708)	471736.82	3752557.91	26.65223c	(12121708)
471696.59	3752558.87	27.06868c	(12121708)	471627.29	3752556.22	28.67760c	(12121708)
471584.60	3752556.76	29.31694c	(12121708)	471560.01	3752556.22	29.44303c	(12121708)
471534.35	3752554.87	29.36987c	(12121708)	471514.89	3752554.87	29.12027c	(12121708)
471486.79	3752555.68	28.92442c	(12121708)	471465.72	3752555.41	28.78583c	(12121708)
471442.21	3752554.98	28.46207c	(12121708)	471419.71	3752552.46	28.46367c	(12121708)
471394.22	3752552.91	28.39433c	(12121708)	471363.44	3752552.46	28.49053c	(12121708)
471332.68	3752553.31	28.41150c	(12121708)	471307.62	3752552.94	28.37726c	(12121708)
471284.05	3752552.70	28.23493c	(12121708)	471261.98	3752552.70	28.13677c	(12121708)
471241.90	3752552.70	28.10555c	(12121708)	471223.15	3752552.86	28.10888c	(12121708)
471205.90	3752552.86	28.13324c	(12121708)	471173.21	3752552.37	28.19525c	(12121708)
471135.70	3752552.53	27.93332c	(12121708)	471093.22	3752551.54	27.16929c	(12121708)
471059.37	3752551.70	25.75762c	(12121708)	471020.54	3752551.20	23.61715c	(12121708)
470981.05	3752563.65	20.42769c	(12121708)	470980.39	3752552.20	21.19872c	(12121708)
470980.06	3752535.61	22.45481c	(12121708)	470979.89	3752517.19	24.02872c	(12121708)
470980.06	3752499.76	25.70623c	(12121708)	470980.22	3752479.85	27.78803c	(12121708)
470980.39	3752459.44	30.09738c	(12121708)	470980.22	3752433.22	32.82975c	(12121708)
470980.06	3752404.02	34.93505c	(12121708)	470927.12	3752402.69	25.92804c	(12121708)
470907.87	3752402.69	23.83560c	(12121708)	470887.30	3752402.69	21.97064c	(12121708)
470869.71	3752402.03	20.72523c	(12121708)	470849.63	3752401.86	19.47522c	(12121708)
470829.39	3752402.19	18.36479c	(12121708)	470811.63	3752402.19	17.50335c	(12121708)
470791.55	3752402.53	16.61590c	(12121708)	470773.63	3752401.86	15.91079c	(12121708)
470749.24	3752402.19	15.02228c	(12121708)	470727.72	3752391.74	14.48806c	(12121708)
470733.04	3752338.97	15.45401c	(12121708)	470733.70	3752320.55	15.72931c	(12121708)
470734.20	3752291.01	16.14933c	(12121708)	470733.20	3752265.78	16.42422c	(12121708)
470732.87	3752218.81	16.98170c	(12121708)	470732.54	3752182.14	17.40537c	(12121708)
470732.37	3752145.29	17.85036c	(12121708)	470692.38	3752144.80	16.26199c	(12121708)

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470670.14	3752144.46	15.47524c	(12121708)	470651.72	3752144.30	14.87779c	(12121708)
470633.46	3752144.13	14.30842c	(12121708)	470615.54	3752143.97	13.78215c	(12121708)
470595.95	3752143.30	13.24486c	(12121708)	470577.03	3752143.47	12.76202c	(12121708)
470553.63	3752143.47	12.20591c	(12121708)	470528.57	3752142.64	11.64438c	(12121708)
470507.99	3752142.80	11.20033c	(12121708)	470485.59	3752142.47	10.74803c	(12121708)
470471.60	3752131.63	10.53605c	(12121708)	470471.60	3752109.21	10.64654c	(12121708)
470471.32	3752085.22	10.75762	(14111708)	470471.46	3752037.68	11.17550	(12122024)
470471.74	3752013.00	11.38116	(12122024)	470470.89	3751987.18	11.55607	(12122024)
470470.89	3751965.74	11.70804	(12122024)	470470.75	3751944.44	11.84908	(12122024)
470470.61	3751924.27	11.95424	(12122024)	470470.47	3751905.93	12.03121	(12122024)
470470.89	3751884.06	12.16804	(12122024)	470470.61	3751864.03	12.24499	(12122024)
470470.33	3751844.00	12.28766	(12122024)	470470.19	3751824.53	12.28261	(12122024)
470470.33	3751805.77	12.29220	(12122024)	470470.33	3751788.00	12.30175	(12122024)
470470.33	3751761.19	12.55419	(15012908)	470471.03	3751741.87	12.83023	(15012908)
470470.05	3751722.82	13.05733	(15012908)	470470.19	3751703.36	13.29599	(15012908)
470470.19	3751683.75	13.48522	(15012908)	470470.33	3751664.28	13.64220	(15012908)
470470.33	3751642.41	13.79499	(15012908)	470470.47	3751621.82	13.88851	(15012908)
470470.19	3751599.81	13.93321	(15012908)	470470.61	3751578.79	13.96350	(15112224)
470469.62	3751555.94	13.90730	(14012108)	470470.05	3751512.49	13.79305	(14012108)

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      470468.64   3751414.59       13.48818  (13122608)               470469.76
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      470468.65   3751358.95       13.90662  (13122608)               470462.93
      3751325.56        13.83194  (13122608)
      470461.98   3751310.62       13.79728  (13122608)               470462.61
      3751296.63        13.74405  (13122608)
      470462.61   3751283.28       13.66368  (13122608)               470462.61
      3751269.92        13.55419  (13122608)
      470462.93   3751254.35       13.41415  (13122608)               470461.98
      3751240.67        13.30518  (13011908)
      470463.25   3751227.64       13.30836  (13011908)               470756.39
      3751290.59        18.17655  (13011908)
      470797.72   3751268.33       18.73028  (14010208)               470891.19
      3751226.38        20.82130  (14010208)
      470940.78   3751191.82       21.36645  (14010208)               471000.61
      3750923.63        15.67304b (13120824)
      471029.26   3750923.63       15.63475  (12021624)               471056.29
      3750923.90        16.18175  (12021624)
      471077.91   3750924.44       16.48954  (12021624)               471097.64
      3750924.44        16.90809  (12021624)
      471118.18   3750924.98       17.32483  (12021624)               471138.99
      3750927.42        17.82700  (12021624)
      471160.07   3750928.77       18.39837  (12021708)               471181.15
      3750931.47        20.21173  (12021708)
      471201.69   3750930.93       21.07926  (12021708)               471222.50
      3750931.47        21.19854  (12021708)
      471244.13   3750931.20       21.85175  (15022208)               471264.40
      3750931.74        22.79498  (15022208)
      471284.40   3750931.74       23.46849  (15022208)               471305.75
      3750931.74        23.79623  (15022208)
      471324.67   3750930.93       23.63601  (15022208)               471343.05
      3750930.12        23.18860  (15022208)
      471363.86   3750929.04       22.80064  (15022208)               471381.96
      3750928.77        22.58909  (13111608)
      471400.88   3750928.23       23.02086  (13111608)               471421.15
      3750927.96        23.38500  (13111608)
      471440.59   3750928.11       23.48728  (13111608)               471461.83
      3750927.45        23.35290  (13111608)
      471479.76   3750927.95       23.25602  (13111608)               471499.68
      3750927.62        23.37956  (16013024)
      471519.26   3750928.78       23.61453  (16013024)               471537.02
      3750929.61        24.46897  (16013024)
      471556.77   3750930.94       25.04052  (16013024)               471580.68
      3750934.09        26.09534  (16013024)
      471624.00   3750940.23       26.05030  (16013024)               471795.90
      3750950.11        25.05983  (12031708)
      471796.29   3750967.88       25.63182  (12031708)               471796.69
      3750987.22        25.98642  (12031708)
      471797.47   3751006.75       25.84072  (12031708)               471796.69
      3751025.30        26.15445  (12031708)
      471795.90   3751046.40       26.43200  (12031708)               471796.69
      3751072.96        26.53264  (16013024)
      471797.47   3751143.85       27.33024  (16120624)               471833.01
      3751143.85        26.84200  (16120624)
      471867.38   3751144.05       25.42493  (16120624)               471891.02
      3751144.44        22.83055  (16120624)
      471916.60   3751144.24       18.20940  (13121824)               471939.45
      3751144.24        17.33516  (13121824)
      471963.08   3751144.44       16.27009  (13121824)               471984.17
      3751144.05        15.50857  (13121824)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       08:38:00

                    PAGE  16
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	15.98856	(13121824)	472000.19	3751199.12	18.23378	(16120624)
471999.80	3751230.56	22.31961	(16120624)	472000.38	3751251.46	24.49204	(16120624)
472000.19	3751281.15	26.01306m	(12050208)	472001.95	3751347.94	29.40353m	(12050208)
472036.90	3751348.52	27.09521m	(12050208)	472063.07	3751349.31	26.09537m	(12050208)
472084.56	3751348.33	25.06066m	(12050208)	472104.87	3751348.72	23.70805m	(12050208)
472127.33	3751348.52	21.56090m	(12050208)	472150.76	3751349.70	18.69884	(16120624)
472171.47	3751349.50	17.66281	(16120624)	472194.12	3751349.11	16.67547	(16120624)
472222.63	3751348.72	15.42916	(16120624)	472247.83	3751349.50	14.17887	(16120624)
472269.70	3751349.11	13.12164	(16120624)	472290.40	3751350.28	12.81642	(16120624)
472313.64	3751350.48	12.51986	(16120624)	472333.76	3751351.26	12.23899	(16120624)
472354.85	3751351.26	11.58218	(12111724)	472377.70	3751351.06	11.05816	(12111724)
472401.72	3751351.06	10.60637	(12111724)	472425.55	3751351.84	10.24916	(12111724)
472445.67	3751350.67	10.00418	(12111724)	472463.24	3751350.87	9.75869	(12111724)
472484.14	3751350.87	9.49495	(12111724)	472503.87	3751351.26	9.28763	(12111724)
472523.79	3751351.26	9.11069	(12111724)	472543.32	3751351.26	8.95019	(12111724)
472563.24	3751352.24	8.78368	(12111724)	472582.57	3751352.04	8.61966	(12111724)
472601.32	3751352.04	8.46372	(12111724)	472606.79	3751367.27	8.48178	(12111724)
472607.57	3751396.37	8.63497	(12111724)	472608.55	3751432.11	8.92394b	(16080308)
472608.94	3751462.58	9.16908m	(12050224)	472609.52	3751497.15	9.59347m	(12050224)
472610.70	3751553.78	10.22033m	(12050224)	472665.97	3751553.98	9.64399m	(12050224)
472690.38	3751553.59	9.41137m	(12050224)	472713.50	3751554.27	9.24561m	(12050224)
472734.64	3751554.04	9.06299m	(12050224)	472759.46	3751554.04	8.85193m	(12050224)

```
       472781.75   3751554.50        8.68350m (12050224)                472849.76
       3751556.11        8.35490m (12050224)
       472871.82   3751556.11        8.22687m (12050224)                472895.25
       3751555.65        8.08424m (12050224)
       472922.60   3751555.88        7.94557m (12050224)                473092.41
       3751802.31        8.00399m (12050224)
       473204.80   3751856.81        7.42482m (12050224)                472991.21
       3752083.31        8.09102m (12050224)
       473295.12   3752052.49        6.60972m (12050224)                473356.76
       3752050.34        6.33721m (12050224)
       473495.10   3751996.58        6.01637m (12050224)                473486.50
       3751917.74        6.20419m (12050224)
       473392.60   3752058.22        6.15911m (12050224)                473464.28
       3752082.59        5.79983m (12050224)
       473550.29   3752087.61        5.46965m (12050224)                473584.69
       3752089.76        5.36072m (12050224)
       472765.59   3752474.09        7.13010  (16100508)                470432.16
       3750483.93       12.36986  (12122408)
       469244.06   3754182.82        2.38649  (13050508)                469596.75
       3750785.65        6.32942  (13011908)
       470466.55   3750530.27       13.78273  (12122408)                469319.29
       3749244.53        3.09850  (13010408)
       469229.64   3749502.19        3.75559  (13010408)                468465.38
       3749582.33        3.12693  (12110508)
       471438.37   3750129.76       10.32297  (15022208)                471657.54
       3749918.78        7.87406  (15022208)
       471732.91   3749916.52        7.55304  (13111608)                471710.30
       3750132.80        9.77640  (13111608)
       471273.89   3750119.77        9.41930
       (12021708)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:38:00

                     PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                                    ** CONC OF CO       IN
                                    MICROGRAMS/M**3                          **


                                                    DATE
                                                                                NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS      47.11097  ON 13090322: AT (  471305.75,  3750931.74,
536.50,   536.50,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:38:00

                     PAGE  18
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	34.93505c ON	12121708: AT (470980.06, 3752404.02, 506.00, 506.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/07/22

*** AERMET - VERSION 16216 ***

*** *** 08:38:00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1638 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1039 Calm Hours Identified

A Total of 599 Missing Hours Identified (1.37 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

ME W186	146	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	146	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

****
*** AERMOD Finishes Successfully ***
****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops NO2\14064 Ops
NO2.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops NO2.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
```

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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL2         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL3         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL4         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL5         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL6         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL7         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL8         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL9         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL10        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL11        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL12        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL13        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL14        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL15        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL16        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL17        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL18        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL19        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL20        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL21        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL22        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL23        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL24        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL25        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL26        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL27        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL28        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL29        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL30        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL31        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL32        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL33        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL34        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL35        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL36        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL37        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL38        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL39        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL40        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL41        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL48        0.0110374143     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
```

```
   INCLUDED "14064 Ops NO2.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS NO2.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Ops NO2.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops NO2\14064 Ops
NO2.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops NO2.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL2         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL3         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL4         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL5         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL6         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL7         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL8         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL9         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL10        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL11        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL12        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL13        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL14        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL15        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL16        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL17        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL18        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL19        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL20        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL21        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL22        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL23        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL24        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL25        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL26        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL27        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL28        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL29        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL30        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL31        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL32        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL33        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL34        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL35        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL36        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL37        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL38        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL39        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL40        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL41        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL48        0.0110374143     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops NO2.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS NO2.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Ops NO2.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:57:14

                     PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: NOX

**Model Calculates  1 Short Term Average(s) of:   1-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
NO2.err
**File for Summary of Results:   14064 Ops
NO2.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY BY CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	
VOL1	0	0.11037E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40	YES
VOL2	0	0.11037E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40	YES
VOL3	0	0.11037E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40	YES
VOL4	0	0.11037E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40	YES
VOL5	0	0.11037E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40	YES
VOL6	0	0.11037E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40	YES
VOL7	0	0.11037E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40	YES
VOL8	0	0.11037E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40	YES
VOL9	0	0.11037E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40	YES
VOL10	0	0.11037E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40	YES
VOL11	0	0.11037E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40	YES
VOL12	0	0.11037E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40	YES
VOL13	0	0.11037E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40	YES
VOL14	0	0.11037E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40	YES
VOL15	0	0.11037E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40	YES
VOL16	0	0.11037E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40	YES
VOL17	0	0.11037E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40	YES
VOL18	0	0.11037E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40	YES
VOL19	0	0.11037E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40	YES
VOL20	0	0.11037E-01	471845.1	3751780.0	538.8	5.00	43.70	1.40	YES
VOL21	0	0.11037E-01	471657.2	3751803.8	536.0	5.00	43.70	1.40	YES
VOL22	0	0.11037E-01	471468.5	3751806.2	528.3	5.00	43.70	1.40	YES
VOL23	0	0.11037E-01	471280.5	3751807.0	525.0	5.00	43.70	1.40	YES

VOL24	0	0.11037E-01	471093.4	3751841.9	515.6	5.00	43.70	1.40	YES
VOL25	0	0.11037E-01	470978.4	3751841.9	518.1	5.00	43.70	1.40	YES
VOL26	0	0.11037E-01	471014.1	3751654.8	520.4	5.00	43.70	1.40	YES
VOL27	0	0.11037E-01	471201.2	3751654.8	525.1	5.00	43.70	1.40	YES
VOL28	0	0.11037E-01	471389.2	3751619.1	534.9	5.00	43.70	1.40	YES
VOL29	0	0.11037E-01	471577.9	3751616.7	529.0	5.00	43.70	1.40	YES
VOL30	0	0.11037E-01	471724.6	3751620.7	533.8	5.00	43.70	1.40	YES
VOL31	0	0.11037E-01	471941.0	3751865.7	534.6	5.00	43.70	1.40	YES
VOL32	0	0.11037E-01	471795.2	3751684.9	537.3	5.00	43.70	1.40	YES
VOL33	0	0.11037E-01	471577.9	3751434.3	531.1	5.00	43.70	1.40	YES
VOL34	0	0.11037E-01	471390.0	3751431.9	537.3	5.00	43.70	1.40	YES
VOL35	0	0.11037E-01	471202.0	3751467.6	526.8	5.00	43.70	1.40	YES
VOL36	0	0.11037E-01	471065.7	3751504.9	522.0	5.00	43.70	1.40	YES
VOL37	0	0.11037E-01	471656.4	3751514.4	529.5	5.00	43.70	1.40	YES
VOL38	0	0.11037E-01	471522.4	3751324.1	529.0	5.00	43.70	1.40	YES
VOL39	0	0.11037E-01	471332.9	3751322.5	529.5	5.00	43.70	1.40	YES
VOL40	0	0.11037E-01	471282.9	3751321.7	528.2	5.00	43.70	1.40	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
VOL41	0	0.11037E-01	471233.8	3751388.3	528.5	5.00	43.70	1.40	YES
VOL48	0	0.11037E-01	471084.5	3752407.2	506.8	5.00	43.70	1.40	YES

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL48 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
		VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
		VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
		VOL41 , VOL48 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0,
499.3, 499.3, 2.0);
(472478.0, 3752183.1, 505.1, 505.1, 2.0); (472148.1, 3752531.5,
495.2, 502.0, 2.0);
(472052.1, 3752531.2, 499.4, 512.0, 2.0); (471975.5, 3752531.2,
500.5, 514.0, 2.0);
(471896.1, 3752530.9, 503.4, 513.0, 2.0); (471840.8, 3752529.9,
503.4, 513.0, 2.0);
(471816.6, 3752527.1, 500.6, 513.0, 2.0); (471736.8, 3752557.9,
501.5, 501.5, 2.0);
(471696.6, 3752558.9, 500.0, 500.0, 2.0); (471627.3, 3752556.2,
501.9, 512.0, 2.0);
(471584.6, 3752556.8, 504.5, 507.0, 2.0); (471560.0, 3752556.2,
504.6, 507.0, 2.0);
(471534.3, 3752554.9, 503.2, 509.0, 2.0); (471514.9, 3752554.9,
502.2, 519.0, 2.0);
(471486.8, 3752555.7, 503.1, 503.1, 2.0); (471465.7, 3752555.4,
503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5,
500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5,
503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9,
506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7,
505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9,
505.9, 505.9, 2.0);
(471205.9, 3752552.9, 506.2, 506.2, 2.0); (471173.2, 3752552.4,
506.5, 506.5, 2.0);
(471135.7, 3752552.5, 506.1, 506.1, 2.0); (471093.2, 3752551.5,
505.4, 505.4, 2.0);
(471059.4, 3752551.7, 504.7, 504.7, 2.0); (471020.5, 3752551.2,
503.1, 503.1, 2.0);
(470981.0, 3752563.6, 502.1, 502.1, 2.0); (470980.4, 3752552.2,
502.5, 502.5, 2.0);
(470980.1, 3752535.6, 503.0, 503.0, 2.0); (470979.9, 3752517.2,
503.7, 503.7, 2.0);
(470980.1, 3752499.8, 504.0, 504.0, 2.0); (470980.2, 3752479.8,
504.0, 504.0, 2.0);
(470980.4, 3752459.4, 504.6, 504.6, 2.0); (470980.2, 3752433.2,
505.4, 505.4, 2.0);
(470980.1, 3752404.0, 506.0, 506.0, 2.0); (470927.1, 3752402.7,
504.9, 504.9, 2.0);
(470907.9, 3752402.7, 503.1, 503.1, 2.0); (470887.3, 3752402.7,
500.9, 505.0, 2.0);
(470869.7, 3752402.0, 500.7, 500.7, 2.0); (470849.6, 3752401.9,
500.3, 500.3, 2.0);
(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2,
499.7, 499.7, 2.0);
(470791.5, 3752402.5, 499.2, 499.2, 2.0); (470773.6, 3752401.9,
498.6, 498.6, 2.0);
(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7,
497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5,
500.2, 500.2, 2.0);
(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8,
500.8, 500.8, 2.0);
(470732.9, 3752218.8, 501.2, 501.2, 2.0); (470732.5, 3752182.1,
501.8, 501.8, 2.0);
(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8,
502.5, 502.5, 2.0);
(470670.1, 3752144.5, 502.1, 502.1, 2.0); (470651.7, 3752144.3,
502.0, 502.0, 2.0);
(470633.5, 3752144.1, 501.5, 501.5, 2.0); (470615.5, 3752144.0,

500.9, 500.9, 2.0); (470596.0, 3752143.3, 500.2, 500.2, 2.0); (470577.0, 3752143.5, 500.0, 500.0, 2.0);
(470553.6, 3752143.5, 499.7, 499.7, 2.0); (470528.6, 3752142.6, 498.8, 498.8, 2.0);
(470508.0, 3752142.8, 497.6, 497.6, 2.0); (470485.6, 3752142.5, 496.3, 496.3, 2.0);
(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2, 497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7, 499.7, 499.7, 2.0);
(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2, 500.1, 500.1, 2.0);
(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9, 499.0, 499.0, 2.0);
(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);
(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
(470462.0, 3751310.6, 512.6, 512.6, 2.0); (470462.6, 3751296.6, 512.4, 512.4, 2.0);
(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
(470462.9, 3751254.3, 509.6, 512.0, 2.0); (470462.0, 3751240.7, 508.9, 508.9, 2.0);
(470463.2, 3751227.6, 509.4, 509.4, 2.0); (470756.4, 3751290.6, 507.7, 525.0, 2.0);
(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
(470940.8, 3751191.8, 512.1, 512.1, 2.0); (471000.6, 3750923.6, 523.8, 523.8, 2.0);
(471029.3, 3750923.6, 523.7, 523.7, 2.0); (471056.3, 3750923.9, 524.2, 542.0, 2.0);
(471077.9, 3750924.4, 524.8, 543.0, 2.0); (471097.6, 3750924.4,

525.7, 543.0, 2.0);
(471118.2, 3750925.0, 528.0, 543.0, 2.0); (471139.0, 3750927.4,
529.8, 543.0, 2.0);
(471160.1, 3750928.8, 530.8, 543.0, 2.0); (471181.1, 3750931.5,
532.3, 543.0, 2.0);
(471201.7, 3750930.9, 533.3, 543.0, 2.0); (471222.5, 3750931.5,
533.7, 543.0, 2.0);
(471244.1, 3750931.2, 534.8, 543.0, 2.0); (471264.4, 3750931.7,
535.7, 538.0, 2.0);
(471284.4, 3750931.7, 536.5, 536.5, 2.0); (471305.8, 3750931.7,
536.5, 536.5, 2.0);
(471324.7, 3750930.9, 535.8, 535.8, 2.0); (471343.0, 3750930.1,
534.9, 534.9, 2.0);
(471363.9, 3750929.0, 534.7, 534.7, 2.0); (471382.0, 3750928.8,
534.8, 534.8, 2.0);
(471400.9, 3750928.2, 535.0, 535.0, 2.0); (471421.1, 3750928.0,
535.4, 535.4, 2.0);
(471440.6, 3750928.1, 535.6, 535.6, 2.0); (471461.8, 3750927.4,
535.7, 535.7, 2.0);
(471479.8, 3750927.9, 535.9, 535.9, 2.0); (471499.7, 3750927.6,
536.2, 536.2, 2.0);
(471519.3, 3750928.8, 536.6, 549.0, 2.0); (471537.0, 3750929.6,
538.0, 549.0, 2.0);
(471556.8, 3750930.9, 539.6, 549.0, 2.0); (471580.7, 3750934.1,
541.7, 549.0, 2.0);
(471624.0, 3750940.2, 545.0, 549.0, 2.0); (471795.9, 3750950.1,
548.4, 548.4, 2.0);
(471796.3, 3750967.9, 547.3, 547.3, 2.0); (471796.7, 3750987.2,
545.3, 547.0, 2.0);
(471797.5, 3751006.8, 542.7, 549.0, 2.0); (471796.7, 3751025.3,
542.0, 547.0, 2.0);
(471795.9, 3751046.4, 541.1, 541.1, 2.0); (471796.7, 3751073.0,
540.1, 540.1, 2.0);
(471797.5, 3751143.8, 537.7, 537.7, 2.0); (471833.0, 3751143.8,
537.0, 537.0, 2.0);
(471867.4, 3751144.0, 534.9, 534.9, 2.0); (471891.0, 3751144.4,
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(471916.6, 3751144.2, 530.9, 530.9, 2.0); (471939.5, 3751144.2,
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(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0,
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(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1,
530.8, 530.8, 2.0);
(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5,
534.3, 534.3, 2.0);
(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9,
537.0, 537.0, 2.0);
(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
536.5, 536.5, 2.0);
(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
534.6, 534.6, 2.0);
(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1,
528.2, 531.0, 2.0);
(472222.6, 3751348.7, 525.4, 536.0, 2.0); (472247.8, 3751349.5,
523.2, 536.0, 2.0);
(472269.7, 3751349.1, 520.9, 536.0, 2.0); (472290.4, 3751350.3,
520.7, 535.0, 2.0);
(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3,
520.6, 532.0, 2.0);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
(472401.7, 3751351.1, 513.6, 533.0, 2.0); (472425.5, 3751351.8, 511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9, 509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3, 506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3, 506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0, 505.8, 505.8, 2.0);
(472601.3, 3751352.0, 505.3, 505.3, 2.0); (472606.8, 3751367.3, 504.3, 504.3, 2.0);
(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
(472608.9, 3751462.6, 504.4, 504.4, 2.0); (472609.5, 3751497.1, 505.0, 505.0, 2.0);
(472610.7, 3751553.8, 505.4, 505.4, 2.0); (472666.0, 3751554.0, 501.3, 501.3, 2.0);
(472690.4, 3751553.6, 499.8, 499.8, 2.0); (472713.5, 3751554.3, 499.2, 499.2, 2.0);
(472734.6, 3751554.0, 497.9, 497.9, 2.0); (472759.5, 3751554.0, 496.2, 496.2, 2.0);
(472781.8, 3751554.5, 494.9, 499.0, 2.0); (472849.8, 3751556.1, 495.4, 495.4, 2.0);
(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
(472922.6, 3751555.9, 493.8, 493.8, 2.0); (473092.4, 3751802.3, 486.1, 486.1, 2.0);
(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
(473295.1, 3752052.5, 478.7, 478.7, 2.0); (473356.8, 3752050.3, 476.8, 476.8, 2.0);
(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);
(472765.6, 3752474.1, 477.2, 495.0, 2.0); (470432.2, 3750483.9, 532.6, 532.6, 2.0);
(469244.1, 3754182.8, 471.3, 485.0, 2.0); (469596.8, 3750785.6, 493.4, 493.4, 2.0);
(470466.5, 3750530.3, 535.0, 535.0, 2.0); (469319.3, 3749244.5, 500.0, 500.0, 2.0);
(469229.6, 3749502.2, 503.4, 503.4, 2.0); (468465.4, 3749582.3, 490.5, 490.5, 2.0);
(471438.4, 3750129.8, 539.2, 539.2, 2.0); (471657.5, 3749918.8, 535.4, 535.4, 2.0);
(471732.9, 3749916.5, 534.7, 534.7, 2.0); (471710.3, 3750132.8, 537.0, 537.0, 2.0);
(471273.9, 3750119.8, 540.5, 540.5, 2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KRAL_V9_ADJU\KRAL_v9.SFC Met
Version: 16216
Profile file:
KRAL_V9_ADJU\KRAL_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93	55.	10.1	288.1	2.0
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	1.00	3.05				

```
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:57:14

                     PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                 VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                 VOL11       , VOL12       , VOL13       ,
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VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	2.37100	(14051521)	472482.23	3752398.04	2.17633	(12041107)
472477.97	3752183.12	2.17301	(15092020)	472148.10	3752531.53	4.41994	(13112916)
472052.12	3752531.22	5.29498	(13112916)	471975.52	3752531.22	4.01634	(13112916)
471896.06	3752530.90	4.26601	(13062606)	471840.76	3752529.94	4.38875	(13062606)
471816.60	3752527.08	4.43844	(13062606)	471736.82	3752557.91	4.23299	(13112916)
471696.59	3752558.87	4.61223	(13112916)	471627.29	3752556.22	4.50388	(13112916)
471584.60	3752556.76	4.59438	(13062606)	471560.01	3752556.22	4.61396	(13062606)
471534.35	3752554.87	4.60400	(13062606)	471514.89	3752554.87	4.56587	(13062606)
471486.79	3752555.68	4.53337	(13062606)	471465.72	3752555.41	4.51119	(13062606)
471442.21	3752554.98	4.46215	(13062606)	471419.71	3752552.46	4.46337	(13062606)
471394.22	3752552.91	4.45078	(13062606)	471363.44	3752552.46	4.46275	(13062606)
471332.68	3752553.31	4.44731	(13062606)	471307.62	3752552.94	4.44055	(13062606)
471284.05	3752552.70	4.41869	(13062606)	471261.98	3752552.70	4.40349	(13062606)
471241.90	3752552.70	4.39849	(13062606)	471223.15	3752552.86	4.39859	(13062606)
471205.90	3752552.86	4.40210	(13062606)	471173.21	3752552.37	4.41154	(13062606)
471135.70	3752552.53	4.37075	(13062606)	471093.22	3752551.54	4.26169	(15100406)
471059.37	3752551.70	4.27811	(15062802)	471020.54	3752551.20	3.99696	(15062802)
470981.05	3752563.65	3.55168	(13083019)	470980.39	3752552.20	3.67639	(13083019)
470980.06	3752535.61	3.86306	(13083019)	470979.89	3752517.19	4.07055	(13083019)
470980.06	3752499.76	4.25020	(13083019)	470980.22	3752479.85	4.50441	(14090307)
470980.39	3752459.44	5.16127	(14090307)	470980.22	3752433.22	5.56926	(14090307)
470980.06	3752404.02	5.46951	(13062606)	470927.12	3752402.69	4.05706	(13062606)
470907.87	3752402.69	3.73050	(13062606)	470887.30	3752402.69	3.43987	(13062606)
470869.71	3752402.03	3.24467	(13062606)	470849.63	3752401.86	3.04882	(13062606)
470829.39	3752402.19	2.87487	(13062606)	470811.63	3752402.19	2.73996	(13062606)
470791.55	3752402.53	2.60106	(13062606)	470773.63	3752401.86	2.49083	(15042903)

470749.24 3752402.19 2.37839 (15042903) 470727.72
3752391.74 2.30576 (15042903)
470733.04 3752338.97 2.41866 (13062606) 470733.70
3752320.55 2.46174 (13062606)
470734.20 3752291.01 2.52735 (13062606) 470733.20
3752265.78 2.57052 (13062606)
470732.87 3752218.81 2.65787 (13062606) 470732.54
3752182.14 2.72413 (13062606)
470732.37 3752145.29 2.79342 (13062606) 470692.38
3752144.80 2.54473 (13062606)
470670.14 3752144.46 2.42159 (13062606) 470651.72
3752144.30 2.32797 (13062606)
470633.46 3752144.13 2.23895 (13062606) 470615.54
3752143.97 2.15669 (13062606)
470595.95 3752143.30 2.07270 (13062606) 470577.03
3752143.47 2.00665 (14091620)
470553.63 3752143.47 1.95252 (15071822) 470528.57
3752142.64 1.89816 (15071820)
470507.99 3752142.80 1.85062 (15071820) 470485.59
3752142.47 1.80120 (15071820)
470471.60 3752131.63 1.78285 (15071820) 470471.60
3752109.21 1.80548 (15071820)
470471.32 3752085.22 1.82517 (15071820) 470471.46
3752037.68 1.86766 (15071822)
470471.74 3752013.00 1.88628 (12010420) 470470.89
3751987.18 1.90025 (16111021)
470470.89 3751965.74 1.91557 (16111021) 470470.75
3751944.44 1.92879 (16111021)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	1.93548	(16111021)	470470.47	3751905.93	1.93756	(16111021)
470470.89	3751884.06	1.94961	(16110919)	470470.61	3751864.03	1.95663	(16110919)
470470.33	3751844.00	1.95735	(16110919)	470470.19	3751824.53	1.94966	(16110919)
470470.33	3751805.77	1.94721	(16110818)	470470.33	3751788.00	1.94489	(16110818)
470470.33	3751761.19	1.97775	(16110818)	470471.03	3751741.87	2.00163	(16110818)

470470.05 3751722.82 2.01868 (16110818) 470470.19
3751703.36 2.04449 (14051420)
470470.19 3751683.75 2.06934 (14051420) 470470.33
3751664.28 2.08912 (14051420)
470470.33 3751642.41 2.10780 (14051420) 470470.47
3751621.82 2.11790 (14051420)
470470.19 3751599.81 2.12085 (14051420) 470470.61
3751578.79 2.11890 (14051420)
470469.62 3751555.94 2.09707 (14051420) 470470.05
3751512.49 2.05062 (14051420)
470468.64 3751414.59 1.95691 (16062003) 470469.76
3751385.25 2.00127 (16062003)
470468.65 3751358.95 2.00895 (16062003) 470462.93
3751325.56 1.99438 (16062003)
470461.98 3751310.62 1.98845 (13050223) 470462.61
3751296.63 1.98169 (13050223)
470462.61 3751283.28 1.97114 (13050223) 470462.61
3751269.92 1.95651 (13050223)
470462.93 3751254.35 1.93801 (13050223) 470461.98
3751240.67 1.92095 (13050223)
470463.25 3751227.64 1.91523 (13050223) 470756.39
3751290.59 2.62923 (14100421)
470797.72 3751268.33 2.72207 (14100421) 470891.19
3751226.38 3.03353 (13083002)
470940.78 3751191.82 3.15038 (15090923) 471000.61
3750923.63 2.82574 (15031222)
471029.26 3750923.63 2.85392 (15031222) 471056.29
3750923.90 2.97236 (14072222)
471077.91 3750924.44 3.07351 (14072222) 471097.64
3750924.44 3.37203 (14072222)
471118.18 3750924.98 3.73099 (15073004) 471138.99
3750927.42 4.10127 (14070703)
471160.07 3750928.77 4.43326 (14070703) 471181.15
3750931.47 5.06992 (12111622)
471201.69 3750930.93 5.42125 (12111622) 471222.50
3750931.47 5.57348 (15102720)
471244.13 3750931.20 5.86229 (15102720) 471264.40
3750931.74 6.08914 (15102720)
471284.40 3750931.74 6.24539 (13090322) 471305.75
3750931.74 6.32963 (13090322)
471324.67 3750930.93 6.17462 (13090322) 471343.05
3750930.12 6.00522 (13070301)
471363.86 3750929.04 5.87572 (14092602) 471381.96
3750928.77 5.83656 (14092602)
471400.88 3750928.23 5.82897 (15091223) 471421.15
3750927.96 5.79839 (15091223)
471440.59 3750928.11 5.71265 (12091920) 471461.83
3750927.45 5.61737 (12091920)
471479.76 3750927.95 5.54272 (13090522) 471499.68
3750927.62 5.48937 (13090522)
471519.26 3750928.78 5.43052 (13090522) 471537.02
3750929.61 5.52746 (13090522)
471556.77 3750930.94 5.54527 (13090522) 471580.68
3750934.09 5.78063 (13090522)
471624.00 3750940.23 5.90595 (13090322) 471795.90
3750950.11 5.67911 (14070402)
471796.29 3750967.88 5.74031 (14070402) 471796.69
3750987.22 5.77026 (15100222)
471797.47 3751006.75 5.70952 (15100222) 471796.69
3751025.30 5.72768 (15100222)
471795.90 3751046.40 5.76682 (12092021) 471796.69
3751072.96 5.77381 (12092021)
471797.47 3751143.85 5.74759 (12092021) 471833.01
3751143.85 5.38955 (12092021)
471867.38 3751144.05 4.81745 (12081722) 471891.02
3751144.44 4.02832 (12081722)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471916.60	3751144.24	3.24981	(12081621)	471939.45	3751144.24	3.05418	(14083024)
471963.08	3751144.44	2.85172	(15041821)	471984.17	3751144.05	2.78411	(15041821)
471999.02	3751163.38	2.78516	(15041821)	472000.19	3751199.12	3.11200	(15092721)
471999.80	3751230.56	3.76667	(16061922)	472000.38	3751251.46	4.22754	(16061922)
472000.19	3751281.15	4.51526	(14091022)	472001.95	3751347.94	4.98452	(12080621)
472036.90	3751348.52	4.50190	(12080624)	472063.07	3751349.31	4.31281	(12080524)
472084.56	3751348.33	4.11362	(13063022)	472104.87	3751348.72	3.85283	(13082222)
472127.33	3751348.52	3.44723	(12081422)	472150.76	3751349.70	3.04139	(14091223)
472171.47	3751349.50	2.83904	(12081622)	472194.12	3751349.11	2.74662	(15081620)
472222.63	3751348.72	2.61657	(16082920)	472247.83	3751349.50	2.50544	(16082920)
472269.70	3751349.11	2.35625	(16082920)	472290.40	3751350.28	2.30914	(16082920)
472313.64	3751350.48	2.26030	(16082920)	472333.76	3751351.26	2.21366	(16082920)
472354.85	3751351.26	2.11302	(16082920)	472377.70	3751351.06	2.02585	(16082920)
472401.72	3751351.06	1.93433	(16081620)	472425.55	3751351.84	1.82621	(15102418)
472445.67	3751350.67	1.79536	(15102418)	472463.24	3751350.87	1.74453	(15102418)
472484.14	3751350.87	1.70403	(15102418)	472503.87	3751351.26	1.67431	(15102418)
472523.79	3751351.26	1.65144	(15102418)	472543.32	3751351.26	1.63105	(15102418)
472563.24	3751352.24	1.60740	(15102418)	472582.57	3751352.04	1.58393	(15102418)
472601.32	3751352.04	1.56076	(15102418)	472606.79	3751367.27	1.55484	(15091321)

```
       472607.57   3751396.37        1.57105  (15091321)                472608.55
       3751432.11        1.59494  (15070221)
       472608.94   3751462.58        1.60874  (15070221)                472609.52
       3751497.15        1.63281  (14072920)
       472610.70   3751553.78        1.67620  (12080920)                472665.97
       3751553.98        1.58616  (12080920)
       472690.38   3751553.59        1.54988  (12080920)                472713.50
       3751554.27        1.52335  (12080920)
       472734.64   3751554.04        1.49444  (12080920)                472759.46
       3751554.04        1.46050  (12080920)
       472781.75   3751554.50        1.43287  (12080920)                472849.76
       3751556.11        1.37808  (12080920)
       472871.82   3751556.11        1.35681  (12080920)                472895.25
       3751555.65        1.33335  (12080920)
       472922.60   3751555.88        1.30965  (12080920)                473092.41
       3751802.31        1.20440  (13082619)
       473204.80   3751856.81        1.12580  (13082920)                472991.21
       3752083.31        1.30378  (16082919)
       473295.12   3752052.49        1.06427  (13090121)                473356.76
       3752050.34        1.02297  (12080821)
       473495.10   3751996.58        0.95334  (13070920)                473486.50
       3751917.74        0.95529  (13082920)
       473392.60   3752058.22        1.00187  (13090121)                473464.28
       3752082.59        0.96596  (13090121)
       473550.29   3752087.61        0.91934  (13090121)                473584.69
       3752089.76        0.90443  (13090121)
       472765.59   3752474.09        1.47252  (16062023)                470432.16
       3750483.93        2.56788  (16100620)
       469244.06   3754182.82        0.56215  (14091624)                469596.75
       3750785.65        0.95244  (15021122)
       470466.55   3750530.27        2.93745  (12091321)                469319.29
       3749244.53        0.58789  (15100924)
       469229.64   3749502.19        0.62183  (15031221)                468465.38
       3749582.33        0.50625  (14051321)
       471438.37   3750129.76        3.28097  (16102220)                471657.54
       3749918.78        2.45201  (14092602)
       471732.91   3749916.52        2.32702  (15091223)                471710.30
       3750132.80        2.88508  (15091223)
       471273.89   3750119.77        3.44360
       (15073004)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        08:57:14

                     PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                                    ** CONC OF NOX      IN
                                    MICROGRAMS/M**3                          **


                                                    DATE
                                                                                NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       6.32963  ON 13090322: AT (  471305.75,  3750931.74,
536.50,   536.50,    2.00)  DC
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1638 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1039 Calm Hours Identified

A Total of   599 Missing Hours Identified (1.37 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM10\14064 Ops
PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL2         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL3         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL4         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL5         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL6         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL7         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL8         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL9         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL10        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL11        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL12        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL13        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL14        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL15        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL16        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL17        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL18        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL19        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL20        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL21        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL22        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL23        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL24        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL25        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL26        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL27        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL28        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL29        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL30        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL31        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL32        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL33        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL34        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL35        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL36        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL37        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL38        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL39        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL40        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL41        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL48        0.0031373472     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
```

```
   INCLUDED "14064 Ops PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM10\14064 Ops
PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL2         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL3         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL4         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL5         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL6         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL7         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL8         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL9         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL10        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL11        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL12        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL13        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL14        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL15        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL16        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL17        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL18        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL19        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL20        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL21        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL22        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL23        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL24        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL25        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL26        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL27        0.0031373472     5.000    43.702     1.400
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   SRCPARAM VOL30        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL31        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL32        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL33        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL34        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL35        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL36        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL37        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL38        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL39        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL40        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL41        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL48        0.0031373472     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM10.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:08:23

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: PM_10

**Model Calculates  1 Short Term Average(s) of:  24-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
PM10.err
**File for Summary of Results:   14064 Ops
PM10.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	
VOL1	0	0.31373E-02	471175.5	3752366.4	510.2	5.00	43.70	1.40	YES
VOL2	0	0.31373E-02	471362.2	3752367.6	512.4	5.00	43.70	1.40	YES
VOL3	0	0.31373E-02	471550.1	3752368.4	518.9	5.00	43.70	1.40	YES
VOL4	0	0.31373E-02	471609.6	3752371.6	516.0	5.00	43.70	1.40	YES
VOL5	0	0.31373E-02	471796.7	3752342.2	515.1	5.00	43.70	1.40	YES
VOL6	0	0.31373E-02	471984.7	3752344.6	513.6	5.00	43.70	1.40	YES
VOL7	0	0.31373E-02	472003.7	3752347.0	512.1	5.00	43.70	1.40	YES
VOL8	0	0.31373E-02	472002.9	3752159.1	521.6	5.00	43.70	1.40	YES
VOL9	0	0.31373E-02	471814.2	3752156.7	520.7	5.00	43.70	1.40	YES
VOL10	0	0.31373E-02	471628.6	3752181.3	526.8	5.00	43.70	1.40	YES
VOL11	0	0.31373E-02	471440.7	3752181.3	527.4	5.00	43.70	1.40	YES
VOL12	0	0.31373E-02	471253.6	3752180.5	518.9	5.00	43.70	1.40	YES
VOL13	0	0.31373E-02	471092.6	3752217.7	509.6	5.00	43.70	1.40	YES
VOL14	0	0.31373E-02	471074.4	3752029.0	516.1	5.00	43.70	1.40	YES
VOL15	0	0.31373E-02	471263.9	3751992.5	521.1	5.00	43.70	1.40	YES
VOL16	0	0.31373E-02	471452.6	3751994.1	530.0	5.00	43.70	1.40	YES
VOL17	0	0.31373E-02	471640.5	3751992.5	534.9	5.00	43.70	1.40	YES
VOL18	0	0.31373E-02	471827.7	3751968.0	533.0	5.00	43.70	1.40	YES
VOL19	0	0.31373E-02	472002.9	3751970.3	527.9	5.00	43.70	1.40	YES
VOL20	0	0.31373E-02	471845.1	3751780.0	538.8	5.00	43.70	1.40	YES
VOL21	0	0.31373E-02	471657.2	3751803.8	536.0	5.00	43.70	1.40	YES
VOL22	0	0.31373E-02	471468.5	3751806.2	528.3	5.00	43.70	1.40	YES
VOL23	0	0.31373E-02	471280.5	3751807.0	525.0	5.00	43.70	1.40	YES

VOL24 0 0.31373E-02 471093.4 3751841.9 515.6 5.00 43.70 1.40
YES
VOL25 0 0.31373E-02 470978.4 3751841.9 518.1 5.00 43.70 1.40
YES
VOL26 0 0.31373E-02 471014.1 3751654.8 520.4 5.00 43.70 1.40
YES
VOL27 0 0.31373E-02 471201.2 3751654.8 525.1 5.00 43.70 1.40
YES
VOL28 0 0.31373E-02 471389.2 3751619.1 534.9 5.00 43.70 1.40
YES
VOL29 0 0.31373E-02 471577.9 3751616.7 529.0 5.00 43.70 1.40
YES
VOL30 0 0.31373E-02 471724.6 3751620.7 533.8 5.00 43.70 1.40
YES
VOL31 0 0.31373E-02 471941.0 3751865.7 534.6 5.00 43.70 1.40
YES
VOL32 0 0.31373E-02 471795.2 3751684.9 537.3 5.00 43.70 1.40
YES
VOL33 0 0.31373E-02 471577.9 3751434.3 531.1 5.00 43.70 1.40
YES
VOL34 0 0.31373E-02 471390.0 3751431.9 537.3 5.00 43.70 1.40
YES
VOL35 0 0.31373E-02 471202.0 3751467.6 526.8 5.00 43.70 1.40
YES
VOL36 0 0.31373E-02 471065.7 3751504.9 522.0 5.00 43.70 1.40
YES
VOL37 0 0.31373E-02 471656.4 3751514.4 529.5 5.00 43.70 1.40
YES
VOL38 0 0.31373E-02 471522.4 3751324.1 529.0 5.00 43.70 1.40
YES
VOL39 0 0.31373E-02 471332.9 3751322.5 529.5 5.00 43.70 1.40
YES
VOL40 0 0.31373E-02 471282.9 3751321.7 528.2 5.00 43.70 1.40
YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41	0	0.31373E-02	471233.8	3751388.3	528.5	5.00	43.70	1.40
YES								
VOL48	0	0.31373E-02	471084.5	3752407.2	506.8	5.00	43.70	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL48 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
		VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
		VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
		VOL41 , VOL48 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9,
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(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7,
505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9,
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(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
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(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
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(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
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(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
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(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
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(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0,
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(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1,
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(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5,
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(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9,
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(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
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(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
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(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1,
528.2, 531.0, 2.0);
(472222.6, 3751348.7, 525.4, 536.0, 2.0); (472247.8, 3751349.5,
523.2, 536.0, 2.0);
(472269.7, 3751349.1, 520.9, 536.0, 2.0); (472290.4, 3751350.3,
520.7, 535.0, 2.0);
(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3,
520.6, 532.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
(472401.7, 3751351.1, 513.6, 533.0, 2.0); (472425.5, 3751351.8, 511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9, 509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3, 506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3, 506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0, 505.8, 505.8, 2.0);
(472601.3, 3751352.0, 505.3, 505.3, 2.0); (472606.8, 3751367.3, 504.3, 504.3, 2.0);
(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
(472608.9, 3751462.6, 504.4, 504.4, 2.0); (472609.5, 3751497.1, 505.0, 505.0, 2.0);
(472610.7, 3751553.8, 505.4, 505.4, 2.0); (472666.0, 3751554.0, 501.3, 501.3, 2.0);
(472690.4, 3751553.6, 499.8, 499.8, 2.0); (472713.5, 3751554.3, 499.2, 499.2, 2.0);
(472734.6, 3751554.0, 497.9, 497.9, 2.0); (472759.5, 3751554.0, 496.2, 496.2, 2.0);
(472781.8, 3751554.5, 494.9, 499.0, 2.0); (472849.8, 3751556.1, 495.4, 495.4, 2.0);
(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
(472922.6, 3751555.9, 493.8, 493.8, 2.0); (473092.4, 3751802.3, 486.1, 486.1, 2.0);
(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
(473295.1, 3752052.5, 478.7, 478.7, 2.0); (473356.8, 3752050.3, 476.8, 476.8, 2.0);
(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);
(472765.6, 3752474.1, 477.2, 495.0, 2.0); (470432.2, 3750483.9, 532.6, 532.6, 2.0);
(469244.1, 3754182.8, 471.3, 485.0, 2.0); (469596.8, 3750785.6, 493.4, 493.4, 2.0);
(470466.5, 3750530.3, 535.0, 535.0, 2.0); (469319.3, 3749244.5, 500.0, 500.0, 2.0);
(469229.6, 3749502.2, 503.4, 503.4, 2.0); (468465.4, 3749582.3, 490.5, 490.5, 2.0);
(471438.4, 3750129.8, 539.2, 539.2, 2.0); (471657.5, 3749918.8, 535.4, 535.4, 2.0);
(471732.9, 3749916.5, 534.7, 534.7, 2.0); (471710.3, 3750132.8, 537.0, 537.0, 2.0);
(471273.9, 3750119.8, 540.5, 540.5, 2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
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1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KRAL_V9_ADJU\KRAL_v9.SFC Met
Version: 16216
Profile file:
KRAL_V9_ADJU\KRAL_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93	55.	10.1	288.1	2.0
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	1.00	3.05				

```
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:08:23

                     PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                 VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                 VOL11       , VOL12       , VOL13       ,
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VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	0.29985	(12121824)	472482.23	3752398.04	0.31557	(12120224)
472477.97	3752183.12	0.35787	(12120224)	472148.10	3752531.53	0.46195	(12121824)
472052.12	3752531.22	0.56976	(13121924)	471975.52	3752531.22	0.64721	(13121924)
471896.06	3752530.90	0.69200	(13121924)	471840.76	3752529.94	0.71090	(13121924)
471816.60	3752527.08	0.71286	(13121924)	471736.82	3752557.91	0.67359	(13121924)
471696.59	3752558.87	0.68253	(13121924)	471627.29	3752556.22	0.72957	(13121924)
471584.60	3752556.76	0.75246	(13121924)	471560.01	3752556.22	0.75623	(13121924)
471534.35	3752554.87	0.75160	(13121924)	471514.89	3752554.87	0.74284	(13121924)
471486.79	3752555.68	0.73922	(13121924)	471465.72	3752555.41	0.73568	(13121924)
471442.21	3752554.98	0.72455	(13121924)	471419.71	3752552.46	0.72356	(13121924)
471394.22	3752552.91	0.72475	(13121924)	471363.44	3752552.46	0.73243	(13121924)
471332.68	3752553.31	0.73493	(13121924)	471307.62	3752552.94	0.73596	(13121924)
471284.05	3752552.70	0.73194	(13121924)	471261.98	3752552.70	0.72986	(13121924)
471241.90	3752552.70	0.73037	(13121924)	471223.15	3752552.86	0.73255	(13121924)
471205.90	3752552.86	0.73532	(13121924)	471173.21	3752552.37	0.74115	(13121924)
471135.70	3752552.53	0.73842	(13121924)	471093.22	3752551.54	0.72112	(13121924)
471059.37	3752551.70	0.68265	(13121924)	471020.54	3752551.20	0.62064	(13121924)
470981.05	3752563.65	0.53024	(13121924)	470980.39	3752552.20	0.55166	(13121924)
470980.06	3752535.61	0.58672	(13121924)	470979.89	3752517.19	0.63081	(13121924)
470980.06	3752499.76	0.67754	(13121924)	470980.22	3752479.85	0.73469	(13121924)
470980.39	3752459.44	0.79774	(13121924)	470980.22	3752433.22	0.86538	(13121924)
470980.06	3752404.02	0.91334	(13121924)	470927.12	3752402.69	0.66526	(13121924)
470907.87	3752402.69	0.60742	(13121924)	470887.30	3752402.69	0.55581	(13121924)
470869.71	3752402.03	0.52285	(13121924)	470849.63	3752401.86	0.48989	(13121924)
470829.39	3752402.19	0.46071	(13121924)	470811.63	3752402.19	0.43810	(13121924)
470791.55	3752402.53	0.41478	(13121924)	470773.63	3752401.86	0.39617	(13121924)

```
        470749.24   3752402.19        0.37281  (13121924)                470727.72
        3752391.74        0.35874  (13121924)
        470733.04   3752338.97        0.38304  (13121924)                470733.70
        3752320.55        0.38980b (16120624)
        470734.20   3752291.01        0.40049b (16120624)                470733.20
        3752265.78        0.40707b (16120624)
        470732.87   3752218.81        0.42077b (16120624)                470732.54
        3752182.14        0.43140b (16120624)
        470732.37   3752145.29        0.44313b (16120624)                470692.38
        3752144.80        0.40363b (16120624)
        470670.14   3752144.46        0.38399b (16120624)                470651.72
        3752144.30        0.36930b (16120624)
        470633.46   3752144.13        0.35495b (16120624)                470615.54
        3752143.97        0.34166b (16120624)
        470595.95   3752143.30        0.32809b (16120624)                470577.03
        3752143.47        0.31613b (16120624)
        470553.63   3752143.47        0.30238b (16120624)                470528.57
        3752142.64        0.28818b (16120624)
        470507.99   3752142.80        0.27675b (16120624)                470485.59
        3752142.47        0.26510b (16120624)
        470471.60   3752131.63        0.26163  (12122024)                470471.60
        3752109.21        0.26866  (12122024)
        470471.32   3752085.22        0.27530  (12122024)                470471.46
        3752037.68        0.28835  (12122024)
        470471.74   3752013.00        0.29452  (12122024)                470470.89
        3751987.18        0.30048m (13010324)
        470470.89   3751965.74        0.30633m (13010324)                470470.75
        3751944.44        0.31186m (13010324)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        09:08:23

                     PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                             SOURCE GROUP:  ALL       ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                VOL3        , VOL4        , VOL5        ,
                 VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                 VOL11       , VOL12       , VOL13       ,
                 VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                 VOL19       , VOL20       , VOL21       ,
                 VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                 VOL27       , VOL28       ,  . . .      ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF PM_10    IN
                                      MICROGRAMS/M**3                         **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)               X-COORD (M)  Y-COORD
      (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - -
        470470.61   3751924.27        0.31632m (13010324)                470470.47
        3751905.93        0.31988m (13010324)
        470470.89   3751884.06        0.32543m (13010324)                470470.61
        3751864.03        0.32921m (13010324)
        470470.33   3751844.00        0.33211m (13010324)                470470.19
        3751824.53        0.33372m (13010324)
        470470.33   3751805.77        0.33576m (13010324)                470470.33
        3751788.00        0.33815  (12010124)
        470470.33   3751761.19        0.34778  (12010124)                470471.03
        3751741.87        0.35494  (12010124)
```

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470470.05   3751722.82        0.36067  (12010124)                470470.19
3751703.36        0.36676  (12010124)
470470.19   3751683.75        0.37162  (12010124)                470470.33
3751664.28        0.37569  (12010124)
470470.33   3751642.41        0.37964  (12010124)                470470.47
3751621.82        0.38218  (12010124)
470470.19   3751599.81        0.38352  (12010124)                470470.61
3751578.79        0.38409  (12010124)
470469.62   3751555.94        0.38133  (12010124)                470470.05
3751512.49        0.37517  (12010124)
470468.64   3751414.59        0.36206  (13121524)                470469.76
3751385.25        0.37006  (13121524)
470468.65   3751358.95        0.37149  (13121524)                470462.93
3751325.56        0.36860  (13121524)
470461.98   3751310.62        0.36738  (13121524)                470462.61
3751296.63        0.36593  (13121524)
470462.61   3751283.28        0.36379  (13121524)                470462.61
3751269.92        0.36097  (13121524)
470462.93   3751254.35        0.35744  (13121524)                470461.98
3751240.67        0.35406  (13121524)
470463.25   3751227.64        0.35273  (13121524)                470756.39
3751290.59        0.50111  (13121524)
470797.72   3751268.33        0.51388  (13121524)                470891.19
3751226.38        0.55561  (13121524)
470940.78   3751191.82        0.55741  (13122424)                471000.61
3750923.63        0.37412m (15020724)
471029.26   3750923.63        0.38249  (15121524)                471056.29
3750923.90        0.39603  (15121524)
471077.91   3750924.44        0.40549  (15121524)                471097.64
3750924.44        0.41114  (15121524)
471118.18   3750924.98        0.41829  (15121524)                471138.99
3750927.42        0.42598  (15121524)
471160.07   3750928.77        0.43482  (12021624)                471181.15
3750931.47        0.46903m (15020724)
471201.69   3750930.93        0.49089m (15020724)                471222.50
3750931.47        0.49191  (15022224)
471244.13   3750931.20        0.51165  (15022224)                471264.40
3750931.74        0.52733  (15022224)
471284.40   3750931.74        0.53759  (15022224)                471305.75
3750931.74        0.53896  (15022224)
471324.67   3750930.93        0.52988  (15022224)                471343.05
3750930.12        0.51597  (15022224)
471363.86   3750929.04        0.50298  (15022224)                471381.96
3750928.77        0.49398  (15022224)
471400.88   3750928.23        0.48450  (15022224)                471421.15
3750927.96        0.47428  (15022224)
471440.59   3750928.11        0.46307  (15022224)                471461.83
3750927.45        0.45046  (15022224)
471479.76   3750927.95        0.44270  (15022224)                471499.68
3750927.62        0.43515  (15022224)
471519.26   3750928.78        0.43067  (15022224)                471537.02
3750929.61        0.44289  (15022224)
471556.77   3750930.94        0.45042  (15022224)                471580.68
3750934.09        0.46749  (15022224)
471624.00   3750940.23        0.46711  (15022224)                471795.90
3750950.11        0.41550  (13111624)
471796.29   3750967.88        0.42923  (13111624)                471796.69
3750987.22        0.45139b (16120624)
471797.47   3751006.75        0.48368b (16120624)                471796.69
3751025.30        0.51175b (16120624)
471795.90   3751046.40        0.54817b (16120624)                471796.69
3751072.96        0.59067b (16120624)
471797.47   3751143.85        0.71827b (16120624)                471833.01
3751143.85        0.69740b (16120624)
471867.38   3751144.05        0.65990b (16120624)                471891.02
3751144.44        0.61559b (16120624)
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471916.60	3751144.24	0.53987b	(16120624)	471939.45	3751144.24	0.51873b	(16120624)
471963.08	3751144.44	0.49142b	(16120624)	471984.17	3751144.05	0.47398b	(16120624)
471999.02	3751163.38	0.48557b	(16120624)	472000.19	3751199.12	0.54026b	(16120624)
471999.80	3751230.56	0.61152b	(16120624)	472000.38	3751251.46	0.65332b	(16120624)
472000.19	3751281.15	0.69331b	(16120624)	472001.95	3751347.94	0.76648b	(16120624)
472036.90	3751348.52	0.71124b	(16120624)	472063.07	3751349.31	0.68313b	(16120624)
472084.56	3751348.33	0.65381b	(16120624)	472104.87	3751348.72	0.62546b	(16120624)
472127.33	3751348.52	0.59111b	(16120624)	472150.76	3751349.70	0.54522b	(16120624)
472171.47	3751349.50	0.52193b	(16120624)	472194.12	3751349.11	0.49519b	(16120624)
472222.63	3751348.72	0.46323b	(16120624)	472247.83	3751349.50	0.43543b	(16120624)
472269.70	3751349.11	0.41066b	(16120624)	472290.40	3751350.28	0.39976b	(16120624)
472313.64	3751350.48	0.38835b	(16120624)	472333.76	3751351.26	0.37850b	(16120624)
472354.85	3751351.26	0.35883b	(16120624)	472377.70	3751351.06	0.34481b	(16120624)
472401.72	3751351.06	0.33122b	(16120624)	472425.55	3751351.84	0.31859b	(16120624)
472445.67	3751350.67	0.31000b	(16120624)	472463.24	3751350.87	0.30156b	(16120624)
472484.14	3751350.87	0.29232b	(16120624)	472503.87	3751351.26	0.28484b	(16120624)
472523.79	3751351.26	0.27828b	(16120624)	472543.32	3751351.26	0.27227b	(16120624)
472563.24	3751352.24	0.26608b	(16120624)	472582.57	3751352.04	0.26009b	(16120624)
472601.32	3751352.04	0.25442b	(16120624)	472606.79	3751367.27	0.25422b	(16120624)

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       472607.57   3751396.37        0.25786b (16120624)                472608.55
       3751432.11        0.26283b (16120624)
       472608.94   3751462.58        0.26612b (16120624)                472609.52
       3751497.15        0.27057b (16120624)
       472610.70   3751553.78        0.27685b (16120624)                472665.97
       3751553.98        0.25522b (16120624)
       472690.38   3751553.59        0.24654b (16120624)                472713.50
       3751554.27        0.23945b (16120624)
       472734.64   3751554.04        0.23266b (16120624)                472759.46
       3751554.04        0.22491b (16120624)
       472781.75   3751554.50        0.21871  (16051524)                472849.76
       3751556.11        0.20737  (16051524)
       472871.82   3751556.11        0.20339  (16051524)                472895.25
       3751555.65        0.19912  (16051524)
       472922.60   3751555.88        0.19463  (16051524)                473092.41
       3751802.31        0.19165  (12050124)
       473204.80   3751856.81        0.17814  (12050124)                472991.21
       3752083.31        0.19992  (12050124)
       473295.12   3752052.49        0.16156  (12050124)                473356.76
       3752050.34        0.15479  (12050124)
       473495.10   3751996.58        0.14560  (12050124)                473486.50
       3751917.74        0.14877  (12050124)
       473392.60   3752058.22        0.15052  (12050124)                473464.28
       3752082.59        0.14198  (12050124)
       473550.29   3752087.61        0.13395  (12050124)                473584.69
       3752089.76        0.13125  (12050124)
       472765.59   3752474.09        0.19251  (12120224)                470432.16
       3750483.93        0.23206  (12122924)
       469244.06   3754182.82        0.04344  (15030124)                469596.75
       3750785.65        0.15339  (13121524)
       470466.55   3750530.27        0.26438  (12122924)                469319.29
       3749244.53        0.05762  (13010424)
       469229.64   3749502.19        0.07021  (13010424)                468465.38
       3749582.33        0.06322  (12010424)
       471438.37   3750129.76        0.22148  (15022224)                471657.54
       3749918.78        0.15831  (15022224)
       471732.91   3749916.52        0.14659  (15022224)                471710.30
       3750132.80        0.18206  (15022224)
       471273.89   3750119.77        0.20540
       (15022224)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        09:08:23

                     PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                    ** CONC OF PM_10    IN
                                    MICROGRAMS/M**3                      **


                                                    DATE
                                                                                NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       0.91334  ON 13121924: AT (  470980.06,  3752404.02,
506.00,   506.00,    2.00)  DC
```

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1638 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1039 Calm Hours Identified

A Total of   599 Missing Hours Identified (1.37 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM25\14064 Ops
PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL2         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL3         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL4         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL5         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL6         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL7         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL8         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL9         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL10        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL11        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL12        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL13        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL14        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL15        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL16        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL17        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL18        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL19        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL20        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL21        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL22        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL23        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL24        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL25        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL26        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL27        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL28        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL29        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL30        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL31        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL32        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL33        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL34        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL35        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL36        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL37        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL38        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL39        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL40        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL41        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL48        0.0007194479     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
```

```
   INCLUDED "14064 Ops PM25.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM25.sum"
OU FINISHED
**
****************************************
** Project Parameters
****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM25\14064 Ops
PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
```

```
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL2         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL3         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL4         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL5         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL6         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL7         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL8         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL9         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL10        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL11        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL12        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL13        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL14        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL15        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL16        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL17        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL18        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL19        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL20        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL21        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL22        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL23        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL24        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL25        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL26        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL27        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL28        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL29        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL30        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL31        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL32        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL33        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL34        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL35        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL36        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL37        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL38        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL39        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL40        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL41        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL48        0.0007194479     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM25.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:19:36

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: PM_2.5

**Model Calculates  1 Short Term Average(s) of:  24-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
PM25.err
**File for Summary of Results:   14064 Ops
PM25.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
VOL1	0	0.71945E-03	471175.5	3752366.4	510.2	5.00	43.70	1.40	YES
VOL2	0	0.71945E-03	471362.2	3752367.6	512.4	5.00	43.70	1.40	YES
VOL3	0	0.71945E-03	471550.1	3752368.4	518.9	5.00	43.70	1.40	YES
VOL4	0	0.71945E-03	471609.6	3752371.6	516.0	5.00	43.70	1.40	YES
VOL5	0	0.71945E-03	471796.7	3752342.2	515.1	5.00	43.70	1.40	YES
VOL6	0	0.71945E-03	471984.7	3752344.6	513.6	5.00	43.70	1.40	YES
VOL7	0	0.71945E-03	472003.7	3752347.0	512.1	5.00	43.70	1.40	YES
VOL8	0	0.71945E-03	472002.9	3752159.1	521.6	5.00	43.70	1.40	YES
VOL9	0	0.71945E-03	471814.2	3752156.7	520.7	5.00	43.70	1.40	YES
VOL10	0	0.71945E-03	471628.6	3752181.3	526.8	5.00	43.70	1.40	YES
VOL11	0	0.71945E-03	471440.7	3752181.3	527.4	5.00	43.70	1.40	YES
VOL12	0	0.71945E-03	471253.6	3752180.5	518.9	5.00	43.70	1.40	YES
VOL13	0	0.71945E-03	471092.6	3752217.7	509.6	5.00	43.70	1.40	YES
VOL14	0	0.71945E-03	471074.4	3752029.0	516.1	5.00	43.70	1.40	YES
VOL15	0	0.71945E-03	471263.9	3751992.5	521.1	5.00	43.70	1.40	YES
VOL16	0	0.71945E-03	471452.6	3751994.1	530.0	5.00	43.70	1.40	YES
VOL17	0	0.71945E-03	471640.5	3751992.5	534.9	5.00	43.70	1.40	YES
VOL18	0	0.71945E-03	471827.7	3751968.0	533.0	5.00	43.70	1.40	YES
VOL19	0	0.71945E-03	472002.9	3751970.3	527.9	5.00	43.70	1.40	YES
VOL20	0	0.71945E-03	471845.1	3751780.0	538.8	5.00	43.70	1.40	YES
VOL21	0	0.71945E-03	471657.2	3751803.8	536.0	5.00	43.70	1.40	YES
VOL22	0	0.71945E-03	471468.5	3751806.2	528.3	5.00	43.70	1.40	YES
VOL23	0	0.71945E-03	471280.5	3751807.0	525.0	5.00	43.70	1.40	YES

```
 VOL24           0   0.71945E-03  471093.4 3751841.9   515.6     5.00    43.70     1.40
 YES
 VOL25           0   0.71945E-03  470978.4 3751841.9   518.1     5.00    43.70     1.40
 YES
 VOL26           0   0.71945E-03  471014.1 3751654.8   520.4     5.00    43.70     1.40
 YES
 VOL27           0   0.71945E-03  471201.2 3751654.8   525.1     5.00    43.70     1.40
 YES
 VOL28           0   0.71945E-03  471389.2 3751619.1   534.9     5.00    43.70     1.40
 YES
 VOL29           0   0.71945E-03  471577.9 3751616.7   529.0     5.00    43.70     1.40
 YES
 VOL30           0   0.71945E-03  471724.6 3751620.7   533.8     5.00    43.70     1.40
 YES
 VOL31           0   0.71945E-03  471941.0 3751865.7   534.6     5.00    43.70     1.40
 YES
 VOL32           0   0.71945E-03  471795.2 3751684.9   537.3     5.00    43.70     1.40
 YES
 VOL33           0   0.71945E-03  471577.9 3751434.3   531.1     5.00    43.70     1.40
 YES
 VOL34           0   0.71945E-03  471390.0 3751431.9   537.3     5.00    43.70     1.40
 YES
 VOL35           0   0.71945E-03  471202.0 3751467.6   526.8     5.00    43.70     1.40
 YES
 VOL36           0   0.71945E-03  471065.7 3751504.9   522.0     5.00    43.70     1.40
 YES
 VOL37           0   0.71945E-03  471656.4 3751514.4   529.5     5.00    43.70     1.40
 YES
 VOL38           0   0.71945E-03  471522.4 3751324.1   529.0     5.00    43.70     1.40
 YES
 VOL39           0   0.71945E-03  471332.9 3751322.5   529.5     5.00    43.70     1.40
 YES
 VOL40           0   0.71945E-03  471282.9 3751321.7   528.2     5.00    43.70     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:19:36

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - -

 VOL41           0   0.71945E-03  471233.8 3751388.3   528.5     5.00    43.70     1.40
 YES
 VOL48           0   0.71945E-03  471084.5 3752407.2   506.8     5.00    43.70     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:19:36

                     PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL48 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
		VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
		VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
		VOL41 , VOL48 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0,
499.3, 499.3, 2.0);
(472478.0, 3752183.1, 505.1, 505.1, 2.0); (472148.1, 3752531.5,
495.2, 502.0, 2.0);
(472052.1, 3752531.2, 499.4, 512.0, 2.0); (471975.5, 3752531.2,
500.5, 514.0, 2.0);
(471896.1, 3752530.9, 503.4, 513.0, 2.0); (471840.8, 3752529.9,
503.4, 513.0, 2.0);
(471816.6, 3752527.1, 500.6, 513.0, 2.0); (471736.8, 3752557.9,
501.5, 501.5, 2.0);
(471696.6, 3752558.9, 500.0, 500.0, 2.0); (471627.3, 3752556.2,
501.9, 512.0, 2.0);
(471584.6, 3752556.8, 504.5, 507.0, 2.0); (471560.0, 3752556.2,
504.6, 507.0, 2.0);
(471534.3, 3752554.9, 503.2, 509.0, 2.0); (471514.9, 3752554.9,
502.2, 519.0, 2.0);
(471486.8, 3752555.7, 503.1, 503.1, 2.0); (471465.7, 3752555.4,
503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5,
500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5,
503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9,
506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7,
505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9,
505.9, 505.9, 2.0);
(471205.9, 3752552.9, 506.2, 506.2, 2.0); (471173.2, 3752552.4,
506.5, 506.5, 2.0);
(471135.7, 3752552.5, 506.1, 506.1, 2.0); (471093.2, 3752551.5,
505.4, 505.4, 2.0);
(471059.4, 3752551.7, 504.7, 504.7, 2.0); (471020.5, 3752551.2,
503.1, 503.1, 2.0);
(470981.0, 3752563.6, 502.1, 502.1, 2.0); (470980.4, 3752552.2,
502.5, 502.5, 2.0);
(470980.1, 3752535.6, 503.0, 503.0, 2.0); (470979.9, 3752517.2,
503.7, 503.7, 2.0);
(470980.1, 3752499.8, 504.0, 504.0, 2.0); (470980.2, 3752479.8,
504.0, 504.0, 2.0);
(470980.4, 3752459.4, 504.6, 504.6, 2.0); (470980.2, 3752433.2,
505.4, 505.4, 2.0);
(470980.1, 3752404.0, 506.0, 506.0, 2.0); (470927.1, 3752402.7,
504.9, 504.9, 2.0);
(470907.9, 3752402.7, 503.1, 503.1, 2.0); (470887.3, 3752402.7,
500.9, 505.0, 2.0);
(470869.7, 3752402.0, 500.7, 500.7, 2.0); (470849.6, 3752401.9,
500.3, 500.3, 2.0);
(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2,
499.7, 499.7, 2.0);
(470791.5, 3752402.5, 499.2, 499.2, 2.0); (470773.6, 3752401.9,
498.6, 498.6, 2.0);
(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7,
497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5,
500.2, 500.2, 2.0);
(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8,
500.8, 500.8, 2.0);
(470732.9, 3752218.8, 501.2, 501.2, 2.0); (470732.5, 3752182.1,
501.8, 501.8, 2.0);
(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8,
502.5, 502.5, 2.0);
(470670.1, 3752144.5, 502.1, 502.1, 2.0); (470651.7, 3752144.3,
502.0, 502.0, 2.0);
(470633.5, 3752144.1, 501.5, 501.5, 2.0); (470615.5, 3752144.0,

500.9, 500.9, 2.0); (470596.0, 3752143.3, 500.2, 500.2, 2.0); (470577.0, 3752143.5, 500.0, 500.0, 2.0);
(470553.6, 3752143.5, 499.7, 499.7, 2.0); (470528.6, 3752142.6, 498.8, 498.8, 2.0);
(470508.0, 3752142.8, 497.6, 497.6, 2.0); (470485.6, 3752142.5, 496.3, 496.3, 2.0);
(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2, 497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7, 499.7, 499.7, 2.0);
(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2, 500.1, 500.1, 2.0);
(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9, 499.0, 499.0, 2.0);
(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);
(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
(470462.0, 3751310.6, 512.6, 512.6, 2.0); (470462.6, 3751296.6, 512.4, 512.4, 2.0);
(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
(470462.9, 3751254.3, 509.6, 512.0, 2.0); (470462.0, 3751240.7, 508.9, 508.9, 2.0);
(470463.2, 3751227.6, 509.4, 509.4, 2.0); (470756.4, 3751290.6, 507.7, 525.0, 2.0);
(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
(470940.8, 3751191.8, 512.1, 512.1, 2.0); (471000.6, 3750923.6, 523.8, 523.8, 2.0);
(471029.3, 3750923.6, 523.7, 523.7, 2.0); (471056.3, 3750923.9, 524.2, 542.0, 2.0);
(471077.9, 3750924.4, 524.8, 543.0, 2.0); (471097.6, 3750924.4,

525.7, 543.0, 2.0);
(471118.2, 3750925.0, 528.0, 543.0, 2.0); (471139.0, 3750927.4,
529.8, 543.0, 2.0);
(471160.1, 3750928.8, 530.8, 543.0, 2.0); (471181.1, 3750931.5,
532.3, 543.0, 2.0);
(471201.7, 3750930.9, 533.3, 543.0, 2.0); (471222.5, 3750931.5,
533.7, 543.0, 2.0);
(471244.1, 3750931.2, 534.8, 543.0, 2.0); (471264.4, 3750931.7,
535.7, 538.0, 2.0);
(471284.4, 3750931.7, 536.5, 536.5, 2.0); (471305.8, 3750931.7,
536.5, 536.5, 2.0);
(471324.7, 3750930.9, 535.8, 535.8, 2.0); (471343.0, 3750930.1,
534.9, 534.9, 2.0);
(471363.9, 3750929.0, 534.7, 534.7, 2.0); (471382.0, 3750928.8,
534.8, 534.8, 2.0);
(471400.9, 3750928.2, 535.0, 535.0, 2.0); (471421.1, 3750928.0,
535.4, 535.4, 2.0);
(471440.6, 3750928.1, 535.6, 535.6, 2.0); (471461.8, 3750927.4,
535.7, 535.7, 2.0);
(471479.8, 3750927.9, 535.9, 535.9, 2.0); (471499.7, 3750927.6,
536.2, 536.2, 2.0);
(471519.3, 3750928.8, 536.6, 549.0, 2.0); (471537.0, 3750929.6,
538.0, 549.0, 2.0);
(471556.8, 3750930.9, 539.6, 549.0, 2.0); (471580.7, 3750934.1,
541.7, 549.0, 2.0);
(471624.0, 3750940.2, 545.0, 549.0, 2.0); (471795.9, 3750950.1,
548.4, 548.4, 2.0);
(471796.3, 3750967.9, 547.3, 547.3, 2.0); (471796.7, 3750987.2,
545.3, 547.0, 2.0);
(471797.5, 3751006.8, 542.7, 549.0, 2.0); (471796.7, 3751025.3,
542.0, 547.0, 2.0);
(471795.9, 3751046.4, 541.1, 541.1, 2.0); (471796.7, 3751073.0,
540.1, 540.1, 2.0);
(471797.5, 3751143.8, 537.7, 537.7, 2.0); (471833.0, 3751143.8,
537.0, 537.0, 2.0);
(471867.4, 3751144.0, 534.9, 534.9, 2.0); (471891.0, 3751144.4,
532.9, 532.9, 2.0);
(471916.6, 3751144.2, 530.9, 530.9, 2.0); (471939.5, 3751144.2,
529.4, 529.4, 2.0);
(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0,
524.4, 533.0, 2.0);
(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1,
530.8, 530.8, 2.0);
(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5,
534.3, 534.3, 2.0);
(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9,
537.0, 537.0, 2.0);
(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
536.5, 536.5, 2.0);
(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
534.6, 534.6, 2.0);
(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1,
528.2, 531.0, 2.0);
(472222.6, 3751348.7, 525.4, 536.0, 2.0); (472247.8, 3751349.5,
523.2, 536.0, 2.0);
(472269.7, 3751349.1, 520.9, 536.0, 2.0); (472290.4, 3751350.3,
520.7, 535.0, 2.0);
(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3,
520.6, 532.0, 2.0);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
(472401.7, 3751351.1, 513.6, 533.0, 2.0); (472425.5, 3751351.8, 511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9, 509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3, 506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3, 506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0, 505.8, 505.8, 2.0);
(472601.3, 3751352.0, 505.3, 505.3, 2.0); (472606.8, 3751367.3, 504.3, 504.3, 2.0);
(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
(472608.9, 3751462.6, 504.4, 504.4, 2.0); (472609.5, 3751497.1, 505.0, 505.0, 2.0);
(472610.7, 3751553.8, 505.4, 505.4, 2.0); (472666.0, 3751554.0, 501.3, 501.3, 2.0);
(472690.4, 3751553.6, 499.8, 499.8, 2.0); (472713.5, 3751554.3, 499.2, 499.2, 2.0);
(472734.6, 3751554.0, 497.9, 497.9, 2.0); (472759.5, 3751554.0, 496.2, 496.2, 2.0);
(472781.8, 3751554.5, 494.9, 499.0, 2.0); (472849.8, 3751556.1, 495.4, 495.4, 2.0);
(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
(472922.6, 3751555.9, 493.8, 493.8, 2.0); (473092.4, 3751802.3, 486.1, 486.1, 2.0);
(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
(473295.1, 3752052.5, 478.7, 478.7, 2.0); (473356.8, 3752050.3, 476.8, 476.8, 2.0);
(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);
(472765.6, 3752474.1, 477.2, 495.0, 2.0); (470432.2, 3750483.9, 532.6, 532.6, 2.0);
(469244.1, 3754182.8, 471.3, 485.0, 2.0); (469596.8, 3750785.6, 493.4, 493.4, 2.0);
(470466.5, 3750530.3, 535.0, 535.0, 2.0); (469319.3, 3749244.5, 500.0, 500.0, 2.0);
(469229.6, 3749502.2, 503.4, 503.4, 2.0); (468465.4, 3749582.3, 490.5, 490.5, 2.0);
(471438.4, 3750129.8, 539.2, 539.2, 2.0); (471657.5, 3749918.8, 535.4, 535.4, 2.0);
(471732.9, 3749916.5, 534.7, 534.7, 2.0); (471710.3, 3750132.8, 537.0, 537.0, 2.0);
(471273.9, 3750119.8, 540.5, 540.5, 2.0);

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/07/22
*** AERMET - VERSION 16216 ***
*** *** 09:19:36

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KRAL_V9_ADJU\KRAL_v9.SFC Met
Version: 16216
Profile file:
KRAL_V9_ADJU\KRAL_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93	55.	10.1	288.1	2.0
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	1.00	3.05				

```
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:19:36

                     PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                VOL11       , VOL12       , VOL13       ,
```

VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	0.06876	(12121824)	472482.23	3752398.04	0.07237	(12120224)
472477.97	3752183.12	0.08207	(12120224)	472148.10	3752531.53	0.10593	(12121824)
472052.12	3752531.22	0.13066	(13121924)	471975.52	3752531.22	0.14842	(13121924)
471896.06	3752530.90	0.15869	(13121924)	471840.76	3752529.94	0.16302	(13121924)
471816.60	3752527.08	0.16347	(13121924)	471736.82	3752557.91	0.15446	(13121924)
471696.59	3752558.87	0.15652	(13121924)	471627.29	3752556.22	0.16730	(13121924)
471584.60	3752556.76	0.17255	(13121924)	471560.01	3752556.22	0.17342	(13121924)
471534.35	3752554.87	0.17235	(13121924)	471514.89	3752554.87	0.17035	(13121924)
471486.79	3752555.68	0.16952	(13121924)	471465.72	3752555.41	0.16870	(13121924)
471442.21	3752554.98	0.16615	(13121924)	471419.71	3752552.46	0.16592	(13121924)
471394.22	3752552.91	0.16620	(13121924)	471363.44	3752552.46	0.16796	(13121924)
471332.68	3752553.31	0.16853	(13121924)	471307.62	3752552.94	0.16877	(13121924)
471284.05	3752552.70	0.16785	(13121924)	471261.98	3752552.70	0.16737	(13121924)
471241.90	3752552.70	0.16749	(13121924)	471223.15	3752552.86	0.16799	(13121924)
471205.90	3752552.86	0.16862	(13121924)	471173.21	3752552.37	0.16996	(13121924)
471135.70	3752552.53	0.16933	(13121924)	471093.22	3752551.54	0.16536	(13121924)
471059.37	3752551.70	0.15654	(13121924)	471020.54	3752551.20	0.14232	(13121924)
470981.05	3752563.65	0.12159	(13121924)	470980.39	3752552.20	0.12651	(13121924)
470980.06	3752535.61	0.13455	(13121924)	470979.89	3752517.19	0.14466	(13121924)
470980.06	3752499.76	0.15537	(13121924)	470980.22	3752479.85	0.16848	(13121924)
470980.39	3752459.44	0.18294	(13121924)	470980.22	3752433.22	0.19845	(13121924)
470980.06	3752404.02	0.20944	(13121924)	470927.12	3752402.69	0.15255	(13121924)
470907.87	3752402.69	0.13929	(13121924)	470887.30	3752402.69	0.12746	(13121924)
470869.71	3752402.03	0.11990	(13121924)	470849.63	3752401.86	0.11234	(13121924)
470829.39	3752402.19	0.10565	(13121924)	470811.63	3752402.19	0.10046	(13121924)
470791.55	3752402.53	0.09512	(13121924)	470773.63	3752401.86	0.09085	(13121924)

470749.24 3752402.19 0.08549 (13121924) 470727.72
3752391.74 0.08226 (13121924)
470733.04 3752338.97 0.08784 (13121924) 470733.70
3752320.55 0.08939b (16120624)
470734.20 3752291.01 0.09184b (16120624) 470733.20
3752265.78 0.09335b (16120624)
470732.87 3752218.81 0.09649b (16120624) 470732.54
3752182.14 0.09893b (16120624)
470732.37 3752145.29 0.10162b (16120624) 470692.38
3752144.80 0.09256b (16120624)
470670.14 3752144.46 0.08806b (16120624) 470651.72
3752144.30 0.08469b (16120624)
470633.46 3752144.13 0.08140b (16120624) 470615.54
3752143.97 0.07835b (16120624)
470595.95 3752143.30 0.07524b (16120624) 470577.03
3752143.47 0.07249b (16120624)
470553.63 3752143.47 0.06934b (16120624) 470528.57
3752142.64 0.06609b (16120624)
470507.99 3752142.80 0.06346b (16120624) 470485.59
3752142.47 0.06079b (16120624)
470471.60 3752131.63 0.06000 (12122024) 470471.60
3752109.21 0.06161 (12122024)
470471.32 3752085.22 0.06313 (12122024) 470471.46
3752037.68 0.06612 (12122024)
470471.74 3752013.00 0.06754 (12122024) 470470.89
3751987.18 0.06891m (13010324)
470470.89 3751965.74 0.07025m (13010324) 470470.75
3751944.44 0.07152m (13010324)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	0.07254m	(13010324)	470470.47	3751905.93	0.07335m	(13010324)
470470.89	3751884.06	0.07463m	(13010324)	470470.61	3751864.03	0.07549m	(13010324)
470470.33	3751844.00	0.07616m	(13010324)	470470.19	3751824.53	0.07653m	(13010324)
470470.33	3751805.77	0.07700m	(13010324)	470470.33	3751788.00	0.07754	(12010124)
470470.33	3751761.19	0.07975	(12010124)	470471.03	3751741.87	0.08139	(12010124)

```
470470.05   3751722.82        0.08271  (12010124)                470470.19
3751703.36        0.08410  (12010124)
470470.19   3751683.75        0.08522  (12010124)                470470.33
3751664.28        0.08615  (12010124)
470470.33   3751642.41        0.08706  (12010124)                470470.47
3751621.82        0.08764  (12010124)
470470.19   3751599.81        0.08795  (12010124)                470470.61
3751578.79        0.08808  (12010124)
470469.62   3751555.94        0.08745  (12010124)                470470.05
3751512.49        0.08603  (12010124)
470468.64   3751414.59        0.08303  (13121524)                470469.76
3751385.25        0.08486  (13121524)
470468.65   3751358.95        0.08519  (13121524)                470462.93
3751325.56        0.08453  (13121524)
470461.98   3751310.62        0.08425  (13121524)                470462.61
3751296.63        0.08391  (13121524)
470462.61   3751283.28        0.08342  (13121524)                470462.61
3751269.92        0.08278  (13121524)
470462.93   3751254.35        0.08197  (13121524)                470461.98
3751240.67        0.08119  (13121524)
470463.25   3751227.64        0.08089  (13121524)                470756.39
3751290.59        0.11491  (13121524)
470797.72   3751268.33        0.11784  (13121524)                470891.19
3751226.38        0.12741  (13121524)
470940.78   3751191.82        0.12782  (13122424)                471000.61
3750923.63        0.08579m (15020724)
471029.26   3750923.63        0.08771  (15121524)                471056.29
3750923.90        0.09082  (15121524)
471077.91   3750924.44        0.09299  (15121524)                471097.64
3750924.44        0.09428  (15121524)
471118.18   3750924.98        0.09592  (15121524)                471138.99
3750927.42        0.09768  (15121524)
471160.07   3750928.77        0.09971  (12021624)                471181.15
3750931.47        0.10756m (15020724)
471201.69   3750930.93        0.11257m (15020724)                471222.50
3750931.47        0.11280  (15022224)
471244.13   3750931.20        0.11733  (15022224)                471264.40
3750931.74        0.12093  (15022224)
471284.40   3750931.74        0.12328  (15022224)                471305.75
3750931.74        0.12359  (15022224)
471324.67   3750930.93        0.12151  (15022224)                471343.05
3750930.12        0.11832  (15022224)
471363.86   3750929.04        0.11534  (15022224)                471381.96
3750928.77        0.11328  (15022224)
471400.88   3750928.23        0.11110  (15022224)                471421.15
3750927.96        0.10876  (15022224)
471440.59   3750928.11        0.10619  (15022224)                471461.83
3750927.45        0.10330  (15022224)
471479.76   3750927.95        0.10152  (15022224)                471499.68
3750927.62        0.09979  (15022224)
471519.26   3750928.78        0.09876  (15022224)                471537.02
3750929.61        0.10156  (15022224)
471556.77   3750930.94        0.10329  (15022224)                471580.68
3750934.09        0.10720  (15022224)
471624.00   3750940.23        0.10712  (15022224)                471795.90
3750950.11        0.09528  (13111624)
471796.29   3750967.88        0.09843  (13111624)                471796.69
3750987.22        0.10351b (16120624)
471797.47   3751006.75        0.11092b (16120624)                471796.69
3751025.30        0.11735b (16120624)
471795.90   3751046.40        0.12570b (16120624)                471796.69
3751072.96        0.13545b (16120624)
471797.47   3751143.85        0.16471b (16120624)                471833.01
3751143.85        0.15993b (16120624)
471867.38   3751144.05        0.15133b (16120624)                471891.02
3751144.44        0.14117b (16120624)
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471916.60	3751144.24	0.12380b	(16120624)	471939.45	3751144.24	0.11895b	(16120624)
471963.08	3751144.44	0.11269b	(16120624)	471984.17	3751144.05	0.10869b	(16120624)
471999.02	3751163.38	0.11135b	(16120624)	472000.19	3751199.12	0.12389b	(16120624)
471999.80	3751230.56	0.14023b	(16120624)	472000.38	3751251.46	0.14982b	(16120624)
472000.19	3751281.15	0.15899b	(16120624)	472001.95	3751347.94	0.17577b	(16120624)
472036.90	3751348.52	0.16310b	(16120624)	472063.07	3751349.31	0.15665b	(16120624)
472084.56	3751348.33	0.14993b	(16120624)	472104.87	3751348.72	0.14343b	(16120624)
472127.33	3751348.52	0.13555b	(16120624)	472150.76	3751349.70	0.12503b	(16120624)
472171.47	3751349.50	0.11969b	(16120624)	472194.12	3751349.11	0.11356b	(16120624)
472222.63	3751348.72	0.10623b	(16120624)	472247.83	3751349.50	0.09985b	(16120624)
472269.70	3751349.11	0.09417b	(16120624)	472290.40	3751350.28	0.09167b	(16120624)
472313.64	3751350.48	0.08906b	(16120624)	472333.76	3751351.26	0.08680b	(16120624)
472354.85	3751351.26	0.08229b	(16120624)	472377.70	3751351.06	0.07907b	(16120624)
472401.72	3751351.06	0.07595b	(16120624)	472425.55	3751351.84	0.07306b	(16120624)
472445.67	3751350.67	0.07109b	(16120624)	472463.24	3751350.87	0.06915b	(16120624)
472484.14	3751350.87	0.06703b	(16120624)	472503.87	3751351.26	0.06532b	(16120624)
472523.79	3751351.26	0.06381b	(16120624)	472543.32	3751351.26	0.06244b	(16120624)
472563.24	3751352.24	0.06102b	(16120624)	472582.57	3751352.04	0.05964b	(16120624)
472601.32	3751352.04	0.05834b	(16120624)	472606.79	3751367.27	0.05830b	(16120624)

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       472607.57   3751396.37        0.05913b (16120624)                472608.55
       3751432.11        0.06027b (16120624)
       472608.94   3751462.58        0.06103b (16120624)                472609.52
       3751497.15        0.06205b (16120624)
       472610.70   3751553.78        0.06349b (16120624)                472665.97
       3751553.98        0.05853b (16120624)
       472690.38   3751553.59        0.05654b (16120624)                472713.50
       3751554.27        0.05491b (16120624)
       472734.64   3751554.04        0.05335b (16120624)                472759.46
       3751554.04        0.05158b (16120624)
       472781.75   3751554.50        0.05015  (16051524)                472849.76
       3751556.11        0.04755  (16051524)
       472871.82   3751556.11        0.04664  (16051524)                472895.25
       3751555.65        0.04566  (16051524)
       472922.60   3751555.88        0.04463  (16051524)                473092.41
       3751802.31        0.04395  (12050124)
       473204.80   3751856.81        0.04085  (12050124)                472991.21
       3752083.31        0.04584  (12050124)
       473295.12   3752052.49        0.03705  (12050124)                473356.76
       3752050.34        0.03550  (12050124)
       473495.10   3751996.58        0.03339  (12050124)                473486.50
       3751917.74        0.03412  (12050124)
       473392.60   3752058.22        0.03452  (12050124)                473464.28
       3752082.59        0.03256  (12050124)
       473550.29   3752087.61        0.03072  (12050124)                473584.69
       3752089.76        0.03010  (12050124)
       472765.59   3752474.09        0.04415  (12120224)                470432.16
       3750483.93        0.05322  (12122924)
       469244.06   3754182.82        0.00996  (15030124)                469596.75
       3750785.65        0.03517  (13121524)
       470466.55   3750530.27        0.06063  (12122924)                469319.29
       3749244.53        0.01321  (13010424)
       469229.64   3749502.19        0.01610  (13010424)                468465.38
       3749582.33        0.01450  (12010424)
       471438.37   3750129.76        0.05079  (15022224)                471657.54
       3749918.78        0.03630  (15022224)
       471732.91   3749916.52        0.03361  (15022224)                471710.30
       3750132.80        0.04175  (15022224)
       471273.89   3750119.77        0.04710
       (15022224)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        09:19:36

                     PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                    ** CONC OF PM_2.5   IN
                                    MICROGRAMS/M**3                          **


                                                    DATE
                                                                                NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       0.20944  ON 13121924: AT (  470980.06,  3752404.02,
506.00,   506.00,    2.00)  DC
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1638 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1039 Calm Hours Identified

A Total of   599 Missing Hours Identified (1.37 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops CO\14064 Ops
CO.ADI
**
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**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL2         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL3         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL4         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL5         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL6         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL7         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL8         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL9         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL10        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL11        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL12        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL13        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL14        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL15        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL16        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL17        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL18        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL19        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL20        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL21        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL22        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL23        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL24        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL25        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL26        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL27        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL28        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL29        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL30        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL31        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL32        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL33        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL34        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL35        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL36        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL37        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL38        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL39        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL40        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL41        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL48        0.0821506181     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
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   INCLUDED "14064 Ops CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14064 OPS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14064 Ops CO.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops CO\14064 Ops
CO.ADI
**
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**
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**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops CO.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
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   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
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   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
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   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL2         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL3         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL4         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL5         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL6         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL7         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL8         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL9         0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL10        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL11        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL12        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL13        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL14        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL15        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL16        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL17        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL18        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL19        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL20        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL21        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL22        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL23        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL24        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL25        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL26        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL27        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL28        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL29        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL30        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL31        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL32        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL33        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL34        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL35        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL36        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL37        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL38        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL39        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL40        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL41        0.0821506181     5.000    43.702     1.400
   SRCPARAM VOL48        0.0821506181     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
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RE STARTING
   INCLUDED "14064 Ops CO.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14064 OPS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14064 Ops CO.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:38:00

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
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** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: CO

**Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                     ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
CO.err
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1	0	0.82151E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40
YES								
VOL2	0	0.82151E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40
YES								
VOL3	0	0.82151E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40
YES								
VOL4	0	0.82151E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40
YES								
VOL5	0	0.82151E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40
YES								
VOL6	0	0.82151E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40
YES								
VOL7	0	0.82151E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40
YES								
VOL8	0	0.82151E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40
YES								
VOL9	0	0.82151E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40
YES								
VOL10	0	0.82151E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40
YES								
VOL11	0	0.82151E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40
YES								
VOL12	0	0.82151E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40
YES								
VOL13	0	0.82151E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40
YES								
VOL14	0	0.82151E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40
YES								
VOL15	0	0.82151E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40
YES								
VOL16	0	0.82151E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40
YES								
VOL17	0	0.82151E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40
YES								
VOL18	0	0.82151E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40
YES								
VOL19	0	0.82151E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40
YES								
VOL20	0	0.82151E-01	471845.1	3751780.0	538.8	5.00	43.70	1.40
YES								
VOL21	0	0.82151E-01	471657.2	3751803.8	536.0	5.00	43.70	1.40
YES								
VOL22	0	0.82151E-01	471468.5	3751806.2	528.3	5.00	43.70	1.40
YES								

```
 VOL23           0   0.82151E-01  471280.5 3751807.0   525.0     5.00    43.70     1.40
 YES
 VOL24           0   0.82151E-01  471093.4 3751841.9   515.6     5.00    43.70     1.40
 YES
 VOL25           0   0.82151E-01  470978.4 3751841.9   518.1     5.00    43.70     1.40
 YES
 VOL26           0   0.82151E-01  471014.1 3751654.8   520.4     5.00    43.70     1.40
 YES
 VOL27           0   0.82151E-01  471201.2 3751654.8   525.1     5.00    43.70     1.40
 YES
 VOL28           0   0.82151E-01  471389.2 3751619.1   534.9     5.00    43.70     1.40
 YES
 VOL29           0   0.82151E-01  471577.9 3751616.7   529.0     5.00    43.70     1.40
 YES
 VOL30           0   0.82151E-01  471724.6 3751620.7   533.8     5.00    43.70     1.40
 YES
 VOL31           0   0.82151E-01  471941.0 3751865.7   534.6     5.00    43.70     1.40
 YES
 VOL32           0   0.82151E-01  471795.2 3751684.9   537.3     5.00    43.70     1.40
 YES
 VOL33           0   0.82151E-01  471577.9 3751434.3   531.1     5.00    43.70     1.40
 YES
 VOL34           0   0.82151E-01  471390.0 3751431.9   537.3     5.00    43.70     1.40
 YES
 VOL35           0   0.82151E-01  471202.0 3751467.6   526.8     5.00    43.70     1.40
 YES
 VOL36           0   0.82151E-01  471065.7 3751504.9   522.0     5.00    43.70     1.40
 YES
 VOL37           0   0.82151E-01  471656.4 3751514.4   529.5     5.00    43.70     1.40
 YES
 VOL38           0   0.82151E-01  471522.4 3751324.1   529.0     5.00    43.70     1.40
 YES
 VOL39           0   0.82151E-01  471332.9 3751322.5   529.5     5.00    43.70     1.40
 YES
 VOL40           0   0.82151E-01  471282.9 3751321.7   528.2     5.00    43.70     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       08:38:00

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - -

 VOL41           0   0.82151E-01  471233.8 3751388.3   528.5     5.00    43.70     1.40
 YES
 VOL48           0   0.82151E-01  471084.5 3752407.2   506.8     5.00    43.70     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       08:38:00

                     PAGE   4
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL48 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
		VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
		VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
		VOL41 , VOL48 ,

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0, 499.3, 499.3, 2.0);
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
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(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
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(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
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(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/07/22
 *** AERMET - VERSION 16216 ***

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
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(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);
(472765.6, 3752474.1, 477.2, 495.0, 2.0); (470432.2, 3750483.9, 532.6, 532.6, 2.0);
(469244.1, 3754182.8, 471.3, 485.0, 2.0); (469596.8, 3750785.6, 493.4, 493.4, 2.0);
(470466.5, 3750530.3, 535.0, 535.0, 2.0); (469319.3, 3749244.5, 500.0, 500.0, 2.0);
(469229.6, 3749502.2, 503.4, 503.4, 2.0); (468465.4, 3749582.3, 490.5, 490.5, 2.0);
(471438.4, 3750129.8, 539.2, 539.2, 2.0); (471657.5, 3749918.8, 535.4, 535.4, 2.0);
(471732.9, 3749916.5, 534.7, 534.7, 2.0); (471710.3, 3750132.8, 537.0, 537.0, 2.0);
(471273.9, 3750119.8, 540.5, 540.5, 2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KRAL_V9_ADJU\KRAL_v9.SFC Met
Version: 16216
Profile file:
KRAL_V9_ADJU\KRAL_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93				

```
 55.   10.1  288.1    2.0
 12 01 01   1 02  -26.8  0.277 -9.000 -9.000 -999.  351.     84.7  0.15   2.40   1.00    3.05
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        08:38:00

                      PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
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VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	17.64716	(14051521)	472482.23	3752398.04	16.19824	(12041107)
472477.97	3752183.12	16.17354	(15092020)	472148.10	3752531.53	32.89728	(13112916)
472052.12	3752531.22	39.41013	(13112916)	471975.52	3752531.22	29.89334	(13112916)
471896.06	3752530.90	31.75158	(13062606)	471840.76	3752529.94	32.66511	(13062606)
471816.60	3752527.08	33.03493	(13062606)	471736.82	3752557.91	31.50584	(13112916)
471696.59	3752558.87	34.32844	(13112916)	471627.29	3752556.22	33.52200	(13112916)
471584.60	3752556.76	34.19560	(13062606)	471560.01	3752556.22	34.34137	(13062606)
471534.35	3752554.87	34.26724	(13062606)	471514.89	3752554.87	33.98343	(13062606)
471486.79	3752555.68	33.74150	(13062606)	471465.72	3752555.41	33.57643	(13062606)
471442.21	3752554.98	33.21146	(13062606)	471419.71	3752552.46	33.22052	(13062606)
471394.22	3752552.91	33.12678	(13062606)	471363.44	3752552.46	33.21592	(13062606)
471332.68	3752553.31	33.10097	(13062606)	471307.62	3752552.94	33.05067	(13062606)
471284.05	3752552.70	32.88799	(13062606)	471261.98	3752552.70	32.77485	(13062606)
471241.90	3752552.70	32.73765	(13062606)	471223.15	3752552.86	32.73836	(13062606)
471205.90	3752552.86	32.76450	(13062606)	471173.21	3752552.37	32.83478	(13062606)
471135.70	3752552.53	32.53117	(13062606)	471093.22	3752551.54	31.71942	(15100406)
471059.37	3752551.70	31.84166	(15062802)	471020.54	3752551.20	29.74906	(15062802)
470981.05	3752563.65	26.43486	(13083019)	470980.39	3752552.20	27.36306	(13083019)
470980.06	3752535.61	28.75244	(13083019)	470979.89	3752517.19	30.29682	(13083019)
470980.06	3752499.76	31.63391	(13083019)	470980.22	3752479.85	33.52598	(14090307)
470980.39	3752459.44	38.41493	(14090307)	470980.22	3752433.22	41.45159	(14090307)
470980.06	3752404.02	40.70916	(13062606)	470927.12	3752402.69	30.19638	(13062606)
470907.87	3752402.69	27.76582	(13062606)	470887.30	3752402.69	25.60268	(13062606)
470869.71	3752402.03	24.14986	(13062606)	470849.63	3752401.86	22.69214	(13062606)
470829.39	3752402.19	21.39746	(13062606)	470811.63	3752402.19	20.39330	(13062606)

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       470791.55   3752402.53       19.35948  (13062606)                470773.63
       3752401.86       18.53909  (15042903)
       470749.24   3752402.19       17.70218  (15042903)                470727.72
       3752391.74       17.16161  (15042903)
       470733.04   3752338.97       18.00190  (13062606)                470733.70
       3752320.55       18.32257  (13062606)
       470734.20   3752291.01       18.81087  (13062606)                470733.20
       3752265.78       19.13218  (13062606)
       470732.87   3752218.81       19.78230  (13062606)                470732.54
       3752182.14       20.27552  (13062606)
       470732.37   3752145.29       20.79123  (13062606)                470692.38
       3752144.80       18.94021  (13062606)
       470670.14   3752144.46       18.02374  (13062606)                470651.72
       3752144.30       17.32692  (13062606)
       470633.46   3752144.13       16.66434  (13062606)                470615.54
       3752143.97       16.05204  (13062606)
       470595.95   3752143.30       15.42697  (13062606)                470577.03
       3752143.47       14.93537  (14091620)
       470553.63   3752143.47       14.53248  (15071822)                470528.57
       3752142.64       14.12788  (15071820)
       470507.99   3752142.80       13.77404  (15071820)                470485.59
       3752142.47       13.40616  (15071820)
       470471.60   3752131.63       13.26959  (15071820)                470471.60
       3752109.21       13.43803  (15071820)
       470471.32   3752085.22       13.58464  (15071820)                470471.46
       3752037.68       13.90088  (15071822)
       470471.74   3752013.00       14.03946  (12010420)                470470.89
       3751987.18       14.14340  (16111021)
       470470.89   3751965.74       14.25745  (16111021)                470470.75
       3751944.44       14.35581  (16111021)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:38:00

                     PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                  VOL11       , VOL12       , VOL13       ,
                  VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                  VOL19       , VOL20       , VOL21       ,
                  VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                  VOL27       , VOL28       ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF CO       IN
                                        MICROGRAMS/M**3                          **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
       470470.61   3751924.27       14.40563  (16111021)                470470.47
       3751905.93       14.42115  (16111021)
       470470.89   3751884.06       14.51082  (16110919)                470470.61
       3751864.03       14.56307  (16110919)
       470470.33   3751844.00       14.56837  (16110919)                470470.19
       3751824.53       14.51114  (16110919)
       470470.33   3751805.77       14.49292  (16110818)                470470.33
       3751788.00       14.47569  (16110818)
```

470470.33 3751761.19 14.72022 (16110818) 470471.03
3751741.87 14.89801 (16110818)
470470.05 3751722.82 15.02488 (16110818) 470470.19
3751703.36 15.21696 (14051420)
470470.19 3751683.75 15.40192 (14051420) 470470.33
3751664.28 15.54913 (14051420)
470470.33 3751642.41 15.68819 (14051420) 470470.47
3751621.82 15.76339 (14051420)
470470.19 3751599.81 15.78534 (14051420) 470470.61
3751578.79 15.77080 (14051420)
470469.62 3751555.94 15.60833 (14051420) 470470.05
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470462.61 3751283.28 14.67101 (13050223) 470462.61
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3750927.42 30.52540 (14070703)
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3750931.47 37.73506 (12111622)
471201.69 3750930.93 40.34995 (12111622) 471222.50
3750931.47 41.48298 (15102720)
471244.13 3750931.20 43.63257 (15102720) 471264.40
3750931.74 45.32097 (15102720)
471284.40 3750931.74 46.48394 (13090322) 471305.75
3750931.74 47.11097 (13090322)
471324.67 3750930.93 45.95718 (13090322) 471343.05
3750930.12 44.69638 (13070301)
471363.86 3750929.04 43.73252 (14092602) 471381.96
3750928.77 43.44108 (14092602)
471400.88 3750928.23 43.38460 (15091223) 471421.15
3750927.96 43.15695 (15091223)
471440.59 3750928.11 42.51880 (12091920) 471461.83
3750927.45 41.80963 (12091920)
471479.76 3750927.95 41.25404 (13090522) 471499.68
3750927.62 40.85692 (13090522)
471519.26 3750928.78 40.41895 (13090522) 471537.02
3750929.61 41.14048 (13090522)
471556.77 3750930.94 41.27304 (13090522) 471580.68
3750934.09 43.02480 (13090522)
471624.00 3750940.23 43.95750 (13090322) 471795.90
3750950.11 42.26919 (14070402)
471796.29 3750967.88 42.72465 (14070402) 471796.69
3750987.22 42.94758 (15100222)
471797.47 3751006.75 42.49553 (15100222) 471796.69
3751025.30 42.63065 (15100222)
471795.90 3751046.40 42.92199 (12092021) 471796.69
3751072.96 42.97406 (12092021)
471797.47 3751143.85 42.77885 (12092021) 471833.01
3751143.85 40.11401 (12092021)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	20.72974	(15041821)	472000.19	3751199.12	23.16234	(15092721)
471999.80	3751230.56	28.03502	(16061922)	472000.38	3751251.46	31.46523	(16061922)
472000.19	3751281.15	33.60673	(14091022)	472001.95	3751347.94	37.09936	(12080621)
472036.90	3751348.52	33.50732	(12080624)	472063.07	3751349.31	32.09993	(12080524)
472084.56	3751348.33	30.61735	(13063022)	472104.87	3751348.72	28.67628	(13082222)
472127.33	3751348.52	25.65746	(12081422)	472150.76	3751349.70	22.63680	(14091223)
472171.47	3751349.50	21.13078	(12081622)	472194.12	3751349.11	20.44289	(15081620)
472222.63	3751348.72	19.47495	(16082920)	472247.83	3751349.50	18.64777	(16082920)
472269.70	3751349.11	17.53741	(16082920)	472290.40	3751350.28	17.18674	(16082920)
472313.64	3751350.48	16.82326	(16082920)	472333.76	3751351.26	16.47612	(16082920)
472354.85	3751351.26	15.72701	(16082920)	472377.70	3751351.06	15.07823	(16082920)
472401.72	3751351.06	14.39704	(16081620)	472425.55	3751351.84	13.59237	(15102418)
472445.67	3751350.67	13.36272	(15102418)	472463.24	3751350.87	12.98441	(15102418)
472484.14	3751350.87	12.68293	(15102418)	472503.87	3751351.26	12.46179	(15102418)
472523.79	3751351.26	12.29157	(15102418)	472543.32	3751351.26	12.13978	(15102418)
472563.24	3751352.24	11.96372	(15102418)	472582.57	3751352.04	11.78908	(15102418)

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      472601.32   3751352.04       11.61661  (15102418)                472606.79
      3751367.27       11.57253  (15091321)
      472607.57   3751396.37       11.69320  (15091321)                472608.55
      3751432.11       11.87098  (15070221)
      472608.94   3751462.58       11.97371  (15070221)                472609.52
      3751497.15       12.15291  (14072920)
      472610.70   3751553.78       12.47580  (12080920)                472665.97
      3751553.98       11.80565  (12080920)
      472690.38   3751553.59       11.53564  (12080920)                472713.50
      3751554.27       11.33819  (12080920)
      472734.64   3751554.04       11.12297  (12080920)                472759.46
      3751554.04       10.87037  (12080920)
      472781.75   3751554.50       10.66476  (12080920)                472849.76
      3751556.11       10.25695  (12080920)
      472871.82   3751556.11       10.09863  (12080920)                472895.25
      3751555.65        9.92399  (12080920)
      472922.60   3751555.88        9.74759  (12080920)                473092.41
      3751802.31        8.96425  (13082619)
      473204.80   3751856.81        8.37927  (13082920)                472991.21
      3752083.31        9.70394  (16082919)
      473295.12   3752052.49        7.92127  (13090121)                473356.76
      3752050.34        7.61392  (12080821)
      473495.10   3751996.58        7.09562  (13070920)                473486.50
      3751917.74        7.11018  (13082920)
      473392.60   3752058.22        7.45682  (13090121)                473464.28
      3752082.59        7.18956  (13090121)
      473550.29   3752087.61        6.84260  (13090121)                473584.69
      3752089.76        6.73161  (13090121)
      472765.59   3752474.09       10.95985  (16062023)                470432.16
      3750483.93       19.11256  (16100620)
      469244.06   3754182.82        4.18404  (14091624)                469596.75
      3750785.65        7.08893  (15021122)
      470466.55   3750530.27       21.86318  (12091321)                469319.29
      3749244.53        4.37562  (15100924)
      469229.64   3749502.19        4.62820  (15031221)                468465.38
      3749582.33        3.76795  (14051321)
      471438.37   3750129.76       24.42000  (16102220)                471657.54
      3749918.78       18.25011  (14092602)
      471732.91   3749916.52       17.31982  (15091223)                471710.30
      3750132.80       21.47345  (15091223)
      471273.89   3750119.77       25.63044
      (15073004)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        08:38:00

                    PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                          *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                              INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                              VOL3        , VOL4        , VOL5        ,
               VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
               VOL11       , VOL12       , VOL13       ,
               VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
               VOL19       , VOL20       , VOL21       ,
               VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
               VOL27       , VOL28       ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF CO       IN
                                    MICROGRAMS/M**3                          **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	12.45784	(15111008)	472482.23	3752398.04	11.24129m	(16031408)
472477.97	3752183.12	13.68744m	(12050224)	472148.10	3752531.53	18.06675c	(12121708)
472052.12	3752531.22	22.79641c	(12121708)	471975.52	3752531.22	25.59302c	(12121708)
471896.06	3752530.90	27.22250c	(12121708)	471840.76	3752529.94	28.00402c	(12121708)
471816.60	3752527.08	28.29472c	(12121708)	471736.82	3752557.91	26.65223c	(12121708)
471696.59	3752558.87	27.06868c	(12121708)	471627.29	3752556.22	28.67760c	(12121708)
471584.60	3752556.76	29.31694c	(12121708)	471560.01	3752556.22	29.44303c	(12121708)
471534.35	3752554.87	29.36987c	(12121708)	471514.89	3752554.87	29.12027c	(12121708)
471486.79	3752555.68	28.92442c	(12121708)	471465.72	3752555.41	28.78583c	(12121708)
471442.21	3752554.98	28.46207c	(12121708)	471419.71	3752552.46	28.46367c	(12121708)
471394.22	3752552.91	28.39433c	(12121708)	471363.44	3752552.46	28.49053c	(12121708)
471332.68	3752553.31	28.41150c	(12121708)	471307.62	3752552.94	28.37726c	(12121708)
471284.05	3752552.70	28.23493c	(12121708)	471261.98	3752552.70	28.13677c	(12121708)
471241.90	3752552.70	28.10555c	(12121708)	471223.15	3752552.86	28.10888c	(12121708)
471205.90	3752552.86	28.13324c	(12121708)	471173.21	3752552.37	28.19525c	(12121708)
471135.70	3752552.53	27.93332c	(12121708)	471093.22	3752551.54	27.16929c	(12121708)
471059.37	3752551.70	25.75762c	(12121708)	471020.54	3752551.20	23.61715c	(12121708)
470981.05	3752563.65	20.42769c	(12121708)	470980.39	3752552.20	21.19872c	(12121708)
470980.06	3752535.61	22.45481c	(12121708)	470979.89	3752517.19	24.02872c	(12121708)
470980.06	3752499.76	25.70623c	(12121708)	470980.22	3752479.85	27.78803c	(12121708)
470980.39	3752459.44	30.09738c	(12121708)	470980.22	3752433.22	32.82975c	(12121708)
470980.06	3752404.02	34.93505c	(12121708)	470927.12	3752402.69	25.92804c	(12121708)
470907.87	3752402.69	23.83560c	(12121708)	470887.30	3752402.69	21.97064c	(12121708)
470869.71	3752402.03	20.72523c	(12121708)	470849.63	3752401.86	19.47522c	(12121708)
470829.39	3752402.19	18.36479c	(12121708)	470811.63	3752402.19	17.50335c	(12121708)
470791.55	3752402.53	16.61590c	(12121708)	470773.63	3752401.86	15.91079c	(12121708)
470749.24	3752402.19	15.02228c	(12121708)	470727.72	3752391.74	14.48806c	(12121708)
470733.04	3752338.97	15.45401c	(12121708)	470733.70	3752320.55	15.72931c	(12121708)
470734.20	3752291.01	16.14933c	(12121708)	470733.20	3752265.78	16.42422c	(12121708)
470732.87	3752218.81	16.98170c	(12121708)	470732.54	3752182.14	17.40537c	(12121708)
470732.37	3752145.29	17.85036c	(12121708)	470692.38	3752144.80	16.26199c	(12121708)

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 ,
VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470670.14	3752144.46	15.47524c	(12121708)	470651.72	3752144.30	14.87779c	(12121708)
470633.46	3752144.13	14.30842c	(12121708)	470615.54	3752143.97	13.78215c	(12121708)
470595.95	3752143.30	13.24486c	(12121708)	470577.03	3752143.47	12.76202c	(12121708)
470553.63	3752143.47	12.20591c	(12121708)	470528.57	3752142.64	11.64438c	(12121708)
470507.99	3752142.80	11.20033c	(12121708)	470485.59	3752142.47	10.74803c	(12121708)
470471.60	3752131.63	10.53605c	(12121708)	470471.60	3752109.21	10.64654c	(12121708)
470471.32	3752085.22	10.75762	(14111708)	470471.46	3752037.68	11.17550	(12122024)
470471.74	3752013.00	11.38116	(12122024)	470470.89	3751987.18	11.55607	(12122024)
470470.89	3751965.74	11.70804	(12122024)	470470.75	3751944.44	11.84908	(12122024)
470470.61	3751924.27	11.95424	(12122024)	470470.47	3751905.93	12.03121	(12122024)
470470.89	3751884.06	12.16804	(12122024)	470470.61	3751864.03	12.24499	(12122024)
470470.33	3751844.00	12.28766	(12122024)	470470.19	3751824.53	12.28261	(12122024)
470470.33	3751805.77	12.29220	(12122024)	470470.33	3751788.00	12.30175	(12122024)
470470.33	3751761.19	12.55419	(15012908)	470471.03	3751741.87	12.83023	(15012908)
470470.05	3751722.82	13.05733	(15012908)	470470.19	3751703.36	13.29599	(15012908)
470470.19	3751683.75	13.48522	(15012908)	470470.33	3751664.28	13.64220	(15012908)
470470.33	3751642.41	13.79499	(15012908)	470470.47	3751621.82	13.88851	(15012908)
470470.19	3751599.81	13.93321	(15012908)	470470.61	3751578.79	13.96350	(15112224)
470469.62	3751555.94	13.90730	(14012108)	470470.05	3751512.49	13.79305	(14012108)

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      470468.64   3751414.59       13.48818  (13122608)               470469.76
      3751385.25        13.82770  (13122608)
      470468.65   3751358.95       13.90662  (13122608)               470462.93
      3751325.56        13.83194  (13122608)
      470461.98   3751310.62       13.79728  (13122608)               470462.61
      3751296.63        13.74405  (13122608)
      470462.61   3751283.28       13.66368  (13122608)               470462.61
      3751269.92        13.55419  (13122608)
      470462.93   3751254.35       13.41415  (13122608)               470461.98
      3751240.67        13.30518  (13011908)
      470463.25   3751227.64       13.30836  (13011908)               470756.39
      3751290.59        18.17655  (13011908)
      470797.72   3751268.33       18.73028  (14010208)               470891.19
      3751226.38        20.82130  (14010208)
      470940.78   3751191.82       21.36645  (14010208)               471000.61
      3750923.63        15.67304b (13120824)
      471029.26   3750923.63       15.63475  (12021624)               471056.29
      3750923.90        16.18175  (12021624)
      471077.91   3750924.44       16.48954  (12021624)               471097.64
      3750924.44        16.90809  (12021624)
      471118.18   3750924.98       17.32483  (12021624)               471138.99
      3750927.42        17.82700  (12021624)
      471160.07   3750928.77       18.39837  (12021708)               471181.15
      3750931.47        20.21173  (12021708)
      471201.69   3750930.93       21.07926  (12021708)               471222.50
      3750931.47        21.19854  (12021708)
      471244.13   3750931.20       21.85175  (15022208)               471264.40
      3750931.74        22.79498  (15022208)
      471284.40   3750931.74       23.46849  (15022208)               471305.75
      3750931.74        23.79623  (15022208)
      471324.67   3750930.93       23.63601  (15022208)               471343.05
      3750930.12        23.18860  (15022208)
      471363.86   3750929.04       22.80064  (15022208)               471381.96
      3750928.77        22.58909  (13111608)
      471400.88   3750928.23       23.02086  (13111608)               471421.15
      3750927.96        23.38500  (13111608)
      471440.59   3750928.11       23.48728  (13111608)               471461.83
      3750927.45        23.35290  (13111608)
      471479.76   3750927.95       23.25602  (13111608)               471499.68
      3750927.62        23.37956  (16013024)
      471519.26   3750928.78       23.61453  (16013024)               471537.02
      3750929.61        24.46897  (16013024)
      471556.77   3750930.94       25.04052  (16013024)               471580.68
      3750934.09        26.09534  (16013024)
      471624.00   3750940.23       26.05030  (16013024)               471795.90
      3750950.11        25.05983  (12031708)
      471796.29   3750967.88       25.63182  (12031708)               471796.69
      3750987.22        25.98642  (12031708)
      471797.47   3751006.75       25.84072  (12031708)               471796.69
      3751025.30        26.15445  (12031708)
      471795.90   3751046.40       26.43200  (12031708)               471796.69
      3751072.96        26.53264  (16013024)
      471797.47   3751143.85       27.33024  (16120624)               471833.01
      3751143.85        26.84200  (16120624)
      471867.38   3751144.05       25.42493  (16120624)               471891.02
      3751144.44        22.83055  (16120624)
      471916.60   3751144.24       18.20940  (13121824)               471939.45
      3751144.24        17.33516  (13121824)
      471963.08   3751144.44       16.27009  (13121824)               471984.17
      3751144.05        15.50857  (13121824)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       08:38:00

                    PAGE  16
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	15.98856	(13121824)	472000.19	3751199.12	18.23378	(16120624)
471999.80	3751230.56	22.31961	(16120624)	472000.38	3751251.46	24.49204	(16120624)
472000.19	3751281.15	26.01306m	(12050208)	472001.95	3751347.94	29.40353m	(12050208)
472036.90	3751348.52	27.09521m	(12050208)	472063.07	3751349.31	26.09537m	(12050208)
472084.56	3751348.33	25.06066m	(12050208)	472104.87	3751348.72	23.70805m	(12050208)
472127.33	3751348.52	21.56090m	(12050208)	472150.76	3751349.70	18.69884	(16120624)
472171.47	3751349.50	17.66281	(16120624)	472194.12	3751349.11	16.67547	(16120624)
472222.63	3751348.72	15.42916	(16120624)	472247.83	3751349.50	14.17887	(16120624)
472269.70	3751349.11	13.12164	(16120624)	472290.40	3751350.28	12.81642	(16120624)
472313.64	3751350.48	12.51986	(16120624)	472333.76	3751351.26	12.23899	(16120624)
472354.85	3751351.26	11.58218	(12111724)	472377.70	3751351.06	11.05816	(12111724)
472401.72	3751351.06	10.60637	(12111724)	472425.55	3751351.84	10.24916	(12111724)
472445.67	3751350.67	10.00418	(12111724)	472463.24	3751350.87	9.75869	(12111724)
472484.14	3751350.87	9.49495	(12111724)	472503.87	3751351.26	9.28763	(12111724)
472523.79	3751351.26	9.11069	(12111724)	472543.32	3751351.26	8.95019	(12111724)
472563.24	3751352.24	8.78368	(12111724)	472582.57	3751352.04	8.61966	(12111724)
472601.32	3751352.04	8.46372	(12111724)	472606.79	3751367.27	8.48178	(12111724)
472607.57	3751396.37	8.63497	(12111724)	472608.55	3751432.11	8.92394b	(16080308)
472608.94	3751462.58	9.16908m	(12050224)	472609.52	3751497.15	9.59347m	(12050224)
472610.70	3751553.78	10.22033m	(12050224)	472665.97	3751553.98	9.64399m	(12050224)
472690.38	3751553.59	9.41137m	(12050224)	472713.50	3751554.27	9.24561m	(12050224)
472734.64	3751554.04	9.06299m	(12050224)	472759.46	3751554.04	8.85193m	(12050224)

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       472781.75   3751554.50        8.68350m (12050224)                472849.76
       3751556.11        8.35490m (12050224)
       472871.82   3751556.11        8.22687m (12050224)                472895.25
       3751555.65        8.08424m (12050224)
       472922.60   3751555.88        7.94557m (12050224)                473092.41
       3751802.31        8.00399m (12050224)
       473204.80   3751856.81        7.42482m (12050224)                472991.21
       3752083.31        8.09102m (12050224)
       473295.12   3752052.49        6.60972m (12050224)                473356.76
       3752050.34        6.33721m (12050224)
       473495.10   3751996.58        6.01637m (12050224)                473486.50
       3751917.74        6.20419m (12050224)
       473392.60   3752058.22        6.15911m (12050224)                473464.28
       3752082.59        5.79983m (12050224)
       473550.29   3752087.61        5.46965m (12050224)                473584.69
       3752089.76        5.36072m (12050224)
       472765.59   3752474.09        7.13010  (16100508)                470432.16
       3750483.93       12.36986  (12122408)
       469244.06   3754182.82        2.38649  (13050508)                469596.75
       3750785.65        6.32942  (13011908)
       470466.55   3750530.27       13.78273  (12122408)                469319.29
       3749244.53        3.09850  (13010408)
       469229.64   3749502.19        3.75559  (13010408)                468465.38
       3749582.33        3.12693  (12110508)
       471438.37   3750129.76       10.32297  (15022208)                471657.54
       3749918.78        7.87406  (15022208)
       471732.91   3749916.52        7.55304  (13111608)                471710.30
       3750132.80        9.77640  (13111608)
       471273.89   3750119.77        9.41930
       (12021708)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:38:00

                     PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                                    ** CONC OF CO       IN
                                    MICROGRAMS/M**3                          **


                                                    DATE
                                                                                NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS      47.11097  ON 13090322: AT (  471305.75,  3750931.74,
536.50,   536.50,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:38:00

                     PAGE  18
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	34.93505c ON	12121708: AT (470980.06, 3752404.02, 506.00, 506.00, 2.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/07/22

*** AERMET - VERSION 16216 ***

*** *** 08:38:00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1638 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1039 Calm Hours Identified

A Total of 599 Missing Hours Identified (1.37 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********

ME W186	146	MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used	0.50
ME W187	146	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

****
*** AERMOD Finishes Successfully ***
****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops NO2\14064 Ops
NO2.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops NO2.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
```

```
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL2         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL3         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL4         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL5         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL6         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL7         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL8         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL9         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL10        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL11        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL12        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL13        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL14        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL15        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL16        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL17        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL18        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL19        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL20        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL21        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL22        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL23        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL24        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL25        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL26        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL27        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL28        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL29        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL30        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL31        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL32        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL33        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL34        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL35        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL36        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL37        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL38        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL39        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL40        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL41        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL48        0.0110374143     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
```

```
   INCLUDED "14064 Ops NO2.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS NO2.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Ops NO2.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops NO2\14064 Ops
NO2.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops NO2.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
```

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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL2         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL3         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL4         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL5         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL6         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL7         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL8         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL9         0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL10        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL11        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL12        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL13        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL14        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL15        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL16        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL17        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL18        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL19        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL20        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL21        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL22        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL23        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL24        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL25        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL26        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL27        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL28        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL29        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL30        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL31        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL32        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL33        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL34        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL35        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL36        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL37        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL38        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL39        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL40        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL41        0.0110374143     5.000    43.702     1.400
   SRCPARAM VOL48        0.0110374143     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops NO2.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS NO2.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Ops NO2.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:57:14

                     PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: NOX

**Model Calculates  1 Short Term Average(s) of:   1-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
NO2.err
**File for Summary of Results:   14064 Ops
NO2.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY BY CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	
VOL1	0	0.11037E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40	YES
VOL2	0	0.11037E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40	YES
VOL3	0	0.11037E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40	YES
VOL4	0	0.11037E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40	YES
VOL5	0	0.11037E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40	YES
VOL6	0	0.11037E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40	YES
VOL7	0	0.11037E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40	YES
VOL8	0	0.11037E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40	YES
VOL9	0	0.11037E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40	YES
VOL10	0	0.11037E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40	YES
VOL11	0	0.11037E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40	YES
VOL12	0	0.11037E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40	YES
VOL13	0	0.11037E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40	YES
VOL14	0	0.11037E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40	YES
VOL15	0	0.11037E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40	YES
VOL16	0	0.11037E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40	YES
VOL17	0	0.11037E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40	YES
VOL18	0	0.11037E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40	YES
VOL19	0	0.11037E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40	YES
VOL20	0	0.11037E-01	471845.1	3751780.0	538.8	5.00	43.70	1.40	YES
VOL21	0	0.11037E-01	471657.2	3751803.8	536.0	5.00	43.70	1.40	YES
VOL22	0	0.11037E-01	471468.5	3751806.2	528.3	5.00	43.70	1.40	YES
VOL23	0	0.11037E-01	471280.5	3751807.0	525.0	5.00	43.70	1.40	YES

VOL24	0	0.11037E-01	471093.4	3751841.9	515.6	5.00	43.70	1.40	YES
VOL25	0	0.11037E-01	470978.4	3751841.9	518.1	5.00	43.70	1.40	YES
VOL26	0	0.11037E-01	471014.1	3751654.8	520.4	5.00	43.70	1.40	YES
VOL27	0	0.11037E-01	471201.2	3751654.8	525.1	5.00	43.70	1.40	YES
VOL28	0	0.11037E-01	471389.2	3751619.1	534.9	5.00	43.70	1.40	YES
VOL29	0	0.11037E-01	471577.9	3751616.7	529.0	5.00	43.70	1.40	YES
VOL30	0	0.11037E-01	471724.6	3751620.7	533.8	5.00	43.70	1.40	YES
VOL31	0	0.11037E-01	471941.0	3751865.7	534.6	5.00	43.70	1.40	YES
VOL32	0	0.11037E-01	471795.2	3751684.9	537.3	5.00	43.70	1.40	YES
VOL33	0	0.11037E-01	471577.9	3751434.3	531.1	5.00	43.70	1.40	YES
VOL34	0	0.11037E-01	471390.0	3751431.9	537.3	5.00	43.70	1.40	YES
VOL35	0	0.11037E-01	471202.0	3751467.6	526.8	5.00	43.70	1.40	YES
VOL36	0	0.11037E-01	471065.7	3751504.9	522.0	5.00	43.70	1.40	YES
VOL37	0	0.11037E-01	471656.4	3751514.4	529.5	5.00	43.70	1.40	YES
VOL38	0	0.11037E-01	471522.4	3751324.1	529.0	5.00	43.70	1.40	YES
VOL39	0	0.11037E-01	471332.9	3751322.5	529.5	5.00	43.70	1.40	YES
VOL40	0	0.11037E-01	471282.9	3751321.7	528.2	5.00	43.70	1.40	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
VOL41	0	0.11037E-01	471233.8	3751388.3	528.5	5.00	43.70	1.40	YES
VOL48	0	0.11037E-01	471084.5	3752407.2	506.8	5.00	43.70	1.40	YES

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL48 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
		VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
		VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
		VOL41 , VOL48 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0,
499.3, 499.3, 2.0);
(472478.0, 3752183.1, 505.1, 505.1, 2.0); (472148.1, 3752531.5,
495.2, 502.0, 2.0);
(472052.1, 3752531.2, 499.4, 512.0, 2.0); (471975.5, 3752531.2,
500.5, 514.0, 2.0);
(471896.1, 3752530.9, 503.4, 513.0, 2.0); (471840.8, 3752529.9,
503.4, 513.0, 2.0);
(471816.6, 3752527.1, 500.6, 513.0, 2.0); (471736.8, 3752557.9,
501.5, 501.5, 2.0);
(471696.6, 3752558.9, 500.0, 500.0, 2.0); (471627.3, 3752556.2,
501.9, 512.0, 2.0);
(471584.6, 3752556.8, 504.5, 507.0, 2.0); (471560.0, 3752556.2,
504.6, 507.0, 2.0);
(471534.3, 3752554.9, 503.2, 509.0, 2.0); (471514.9, 3752554.9,
502.2, 519.0, 2.0);
(471486.8, 3752555.7, 503.1, 503.1, 2.0); (471465.7, 3752555.4,
503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5,
500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5,
503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9,
506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7,
505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9,
505.9, 505.9, 2.0);
(471205.9, 3752552.9, 506.2, 506.2, 2.0); (471173.2, 3752552.4,
506.5, 506.5, 2.0);
(471135.7, 3752552.5, 506.1, 506.1, 2.0); (471093.2, 3752551.5,
505.4, 505.4, 2.0);
(471059.4, 3752551.7, 504.7, 504.7, 2.0); (471020.5, 3752551.2,
503.1, 503.1, 2.0);
(470981.0, 3752563.6, 502.1, 502.1, 2.0); (470980.4, 3752552.2,
502.5, 502.5, 2.0);
(470980.1, 3752535.6, 503.0, 503.0, 2.0); (470979.9, 3752517.2,
503.7, 503.7, 2.0);
(470980.1, 3752499.8, 504.0, 504.0, 2.0); (470980.2, 3752479.8,
504.0, 504.0, 2.0);
(470980.4, 3752459.4, 504.6, 504.6, 2.0); (470980.2, 3752433.2,
505.4, 505.4, 2.0);
(470980.1, 3752404.0, 506.0, 506.0, 2.0); (470927.1, 3752402.7,
504.9, 504.9, 2.0);
(470907.9, 3752402.7, 503.1, 503.1, 2.0); (470887.3, 3752402.7,
500.9, 505.0, 2.0);
(470869.7, 3752402.0, 500.7, 500.7, 2.0); (470849.6, 3752401.9,
500.3, 500.3, 2.0);
(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2,
499.7, 499.7, 2.0);
(470791.5, 3752402.5, 499.2, 499.2, 2.0); (470773.6, 3752401.9,
498.6, 498.6, 2.0);
(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7,
497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5,
500.2, 500.2, 2.0);
(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8,
500.8, 500.8, 2.0);
(470732.9, 3752218.8, 501.2, 501.2, 2.0); (470732.5, 3752182.1,
501.8, 501.8, 2.0);
(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8,
502.5, 502.5, 2.0);
(470670.1, 3752144.5, 502.1, 502.1, 2.0); (470651.7, 3752144.3,
502.0, 502.0, 2.0);
(470633.5, 3752144.1, 501.5, 501.5, 2.0); (470615.5, 3752144.0,

500.9, 500.9, 2.0); (470596.0, 3752143.3, 500.2, 500.2, 2.0); (470577.0, 3752143.5, 500.0, 500.0, 2.0);
(470553.6, 3752143.5, 499.7, 499.7, 2.0); (470528.6, 3752142.6, 498.8, 498.8, 2.0);
(470508.0, 3752142.8, 497.6, 497.6, 2.0); (470485.6, 3752142.5, 496.3, 496.3, 2.0);
(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2, 497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7, 499.7, 499.7, 2.0);
(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2, 500.1, 500.1, 2.0);
(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9, 499.0, 499.0, 2.0);
(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);
(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
(470462.0, 3751310.6, 512.6, 512.6, 2.0); (470462.6, 3751296.6, 512.4, 512.4, 2.0);
(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
(470462.9, 3751254.3, 509.6, 512.0, 2.0); (470462.0, 3751240.7, 508.9, 508.9, 2.0);
(470463.2, 3751227.6, 509.4, 509.4, 2.0); (470756.4, 3751290.6, 507.7, 525.0, 2.0);
(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
(470940.8, 3751191.8, 512.1, 512.1, 2.0); (471000.6, 3750923.6, 523.8, 523.8, 2.0);
(471029.3, 3750923.6, 523.7, 523.7, 2.0); (471056.3, 3750923.9, 524.2, 542.0, 2.0);
(471077.9, 3750924.4, 524.8, 543.0, 2.0); (471097.6, 3750924.4,

525.7, 543.0, 2.0);
(471118.2, 3750925.0, 528.0, 543.0, 2.0); (471139.0, 3750927.4,
529.8, 543.0, 2.0);
(471160.1, 3750928.8, 530.8, 543.0, 2.0); (471181.1, 3750931.5,
532.3, 543.0, 2.0);
(471201.7, 3750930.9, 533.3, 543.0, 2.0); (471222.5, 3750931.5,
533.7, 543.0, 2.0);
(471244.1, 3750931.2, 534.8, 543.0, 2.0); (471264.4, 3750931.7,
535.7, 538.0, 2.0);
(471284.4, 3750931.7, 536.5, 536.5, 2.0); (471305.8, 3750931.7,
536.5, 536.5, 2.0);
(471324.7, 3750930.9, 535.8, 535.8, 2.0); (471343.0, 3750930.1,
534.9, 534.9, 2.0);
(471363.9, 3750929.0, 534.7, 534.7, 2.0); (471382.0, 3750928.8,
534.8, 534.8, 2.0);
(471400.9, 3750928.2, 535.0, 535.0, 2.0); (471421.1, 3750928.0,
535.4, 535.4, 2.0);
(471440.6, 3750928.1, 535.6, 535.6, 2.0); (471461.8, 3750927.4,
535.7, 535.7, 2.0);
(471479.8, 3750927.9, 535.9, 535.9, 2.0); (471499.7, 3750927.6,
536.2, 536.2, 2.0);
(471519.3, 3750928.8, 536.6, 549.0, 2.0); (471537.0, 3750929.6,
538.0, 549.0, 2.0);
(471556.8, 3750930.9, 539.6, 549.0, 2.0); (471580.7, 3750934.1,
541.7, 549.0, 2.0);
(471624.0, 3750940.2, 545.0, 549.0, 2.0); (471795.9, 3750950.1,
548.4, 548.4, 2.0);
(471796.3, 3750967.9, 547.3, 547.3, 2.0); (471796.7, 3750987.2,
545.3, 547.0, 2.0);
(471797.5, 3751006.8, 542.7, 549.0, 2.0); (471796.7, 3751025.3,
542.0, 547.0, 2.0);
(471795.9, 3751046.4, 541.1, 541.1, 2.0); (471796.7, 3751073.0,
540.1, 540.1, 2.0);
(471797.5, 3751143.8, 537.7, 537.7, 2.0); (471833.0, 3751143.8,
537.0, 537.0, 2.0);
(471867.4, 3751144.0, 534.9, 534.9, 2.0); (471891.0, 3751144.4,
532.9, 532.9, 2.0);
(471916.6, 3751144.2, 530.9, 530.9, 2.0); (471939.5, 3751144.2,
529.4, 529.4, 2.0);
(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0,
524.4, 533.0, 2.0);
(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1,
530.8, 530.8, 2.0);
(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5,
534.3, 534.3, 2.0);
(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9,
537.0, 537.0, 2.0);
(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
536.5, 536.5, 2.0);
(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
534.6, 534.6, 2.0);
(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1,
528.2, 531.0, 2.0);
(472222.6, 3751348.7, 525.4, 536.0, 2.0); (472247.8, 3751349.5,
523.2, 536.0, 2.0);
(472269.7, 3751349.1, 520.9, 536.0, 2.0); (472290.4, 3751350.3,
520.7, 535.0, 2.0);
(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3,
520.6, 532.0, 2.0);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
(472401.7, 3751351.1, 513.6, 533.0, 2.0); (472425.5, 3751351.8, 511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9, 509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3, 506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3, 506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0, 505.8, 505.8, 2.0);
(472601.3, 3751352.0, 505.3, 505.3, 2.0); (472606.8, 3751367.3, 504.3, 504.3, 2.0);
(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
(472608.9, 3751462.6, 504.4, 504.4, 2.0); (472609.5, 3751497.1, 505.0, 505.0, 2.0);
(472610.7, 3751553.8, 505.4, 505.4, 2.0); (472666.0, 3751554.0, 501.3, 501.3, 2.0);
(472690.4, 3751553.6, 499.8, 499.8, 2.0); (472713.5, 3751554.3, 499.2, 499.2, 2.0);
(472734.6, 3751554.0, 497.9, 497.9, 2.0); (472759.5, 3751554.0, 496.2, 496.2, 2.0);
(472781.8, 3751554.5, 494.9, 499.0, 2.0); (472849.8, 3751556.1, 495.4, 495.4, 2.0);
(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
(472922.6, 3751555.9, 493.8, 493.8, 2.0); (473092.4, 3751802.3, 486.1, 486.1, 2.0);
(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
(473295.1, 3752052.5, 478.7, 478.7, 2.0); (473356.8, 3752050.3, 476.8, 476.8, 2.0);
(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);
(472765.6, 3752474.1, 477.2, 495.0, 2.0); (470432.2, 3750483.9, 532.6, 532.6, 2.0);
(469244.1, 3754182.8, 471.3, 485.0, 2.0); (469596.8, 3750785.6, 493.4, 493.4, 2.0);
(470466.5, 3750530.3, 535.0, 535.0, 2.0); (469319.3, 3749244.5, 500.0, 500.0, 2.0);
(469229.6, 3749502.2, 503.4, 503.4, 2.0); (468465.4, 3749582.3, 490.5, 490.5, 2.0);
(471438.4, 3750129.8, 539.2, 539.2, 2.0); (471657.5, 3749918.8, 535.4, 535.4, 2.0);
(471732.9, 3749916.5, 534.7, 534.7, 2.0); (471710.3, 3750132.8, 537.0, 537.0, 2.0);
(471273.9, 3750119.8, 540.5, 540.5, 2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KRAL_V9_ADJU\KRAL_v9.SFC Met
Version: 16216
Profile file:
KRAL_V9_ADJU\KRAL_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93	55.	10.1	288.1	2.0
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	1.00	3.05				

```
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        08:57:14

                     PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                 VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                 VOL11       , VOL12       , VOL13       ,
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VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	2.37100	(14051521)	472482.23	3752398.04	2.17633	(12041107)
472477.97	3752183.12	2.17301	(15092020)	472148.10	3752531.53	4.41994	(13112916)
472052.12	3752531.22	5.29498	(13112916)	471975.52	3752531.22	4.01634	(13112916)
471896.06	3752530.90	4.26601	(13062606)	471840.76	3752529.94	4.38875	(13062606)
471816.60	3752527.08	4.43844	(13062606)	471736.82	3752557.91	4.23299	(13112916)
471696.59	3752558.87	4.61223	(13112916)	471627.29	3752556.22	4.50388	(13112916)
471584.60	3752556.76	4.59438	(13062606)	471560.01	3752556.22	4.61396	(13062606)
471534.35	3752554.87	4.60400	(13062606)	471514.89	3752554.87	4.56587	(13062606)
471486.79	3752555.68	4.53337	(13062606)	471465.72	3752555.41	4.51119	(13062606)
471442.21	3752554.98	4.46215	(13062606)	471419.71	3752552.46	4.46337	(13062606)
471394.22	3752552.91	4.45078	(13062606)	471363.44	3752552.46	4.46275	(13062606)
471332.68	3752553.31	4.44731	(13062606)	471307.62	3752552.94	4.44055	(13062606)
471284.05	3752552.70	4.41869	(13062606)	471261.98	3752552.70	4.40349	(13062606)
471241.90	3752552.70	4.39849	(13062606)	471223.15	3752552.86	4.39859	(13062606)
471205.90	3752552.86	4.40210	(13062606)	471173.21	3752552.37	4.41154	(13062606)
471135.70	3752552.53	4.37075	(13062606)	471093.22	3752551.54	4.26169	(15100406)
471059.37	3752551.70	4.27811	(15062802)	471020.54	3752551.20	3.99696	(15062802)
470981.05	3752563.65	3.55168	(13083019)	470980.39	3752552.20	3.67639	(13083019)
470980.06	3752535.61	3.86306	(13083019)	470979.89	3752517.19	4.07055	(13083019)
470980.06	3752499.76	4.25020	(13083019)	470980.22	3752479.85	4.50441	(14090307)
470980.39	3752459.44	5.16127	(14090307)	470980.22	3752433.22	5.56926	(14090307)
470980.06	3752404.02	5.46951	(13062606)	470927.12	3752402.69	4.05706	(13062606)
470907.87	3752402.69	3.73050	(13062606)	470887.30	3752402.69	3.43987	(13062606)
470869.71	3752402.03	3.24467	(13062606)	470849.63	3752401.86	3.04882	(13062606)
470829.39	3752402.19	2.87487	(13062606)	470811.63	3752402.19	2.73996	(13062606)
470791.55	3752402.53	2.60106	(13062606)	470773.63	3752401.86	2.49083	(15042903)

470749.24 3752402.19 2.37839 (15042903) 470727.72
3752391.74 2.30576 (15042903)
470733.04 3752338.97 2.41866 (13062606) 470733.70
3752320.55 2.46174 (13062606)
470734.20 3752291.01 2.52735 (13062606) 470733.20
3752265.78 2.57052 (13062606)
470732.87 3752218.81 2.65787 (13062606) 470732.54
3752182.14 2.72413 (13062606)
470732.37 3752145.29 2.79342 (13062606) 470692.38
3752144.80 2.54473 (13062606)
470670.14 3752144.46 2.42159 (13062606) 470651.72
3752144.30 2.32797 (13062606)
470633.46 3752144.13 2.23895 (13062606) 470615.54
3752143.97 2.15669 (13062606)
470595.95 3752143.30 2.07270 (13062606) 470577.03
3752143.47 2.00665 (14091620)
470553.63 3752143.47 1.95252 (15071822) 470528.57
3752142.64 1.89816 (15071820)
470507.99 3752142.80 1.85062 (15071820) 470485.59
3752142.47 1.80120 (15071820)
470471.60 3752131.63 1.78285 (15071820) 470471.60
3752109.21 1.80548 (15071820)
470471.32 3752085.22 1.82517 (15071820) 470471.46
3752037.68 1.86766 (15071822)
470471.74 3752013.00 1.88628 (12010420) 470470.89
3751987.18 1.90025 (16111021)
470470.89 3751965.74 1.91557 (16111021) 470470.75
3751944.44 1.92879 (16111021)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	1.93548	(16111021)	470470.47	3751905.93	1.93756	(16111021)
470470.89	3751884.06	1.94961	(16110919)	470470.61	3751864.03	1.95663	(16110919)
470470.33	3751844.00	1.95735	(16110919)	470470.19	3751824.53	1.94966	(16110919)
470470.33	3751805.77	1.94721	(16110818)	470470.33	3751788.00	1.94489	(16110818)
470470.33	3751761.19	1.97775	(16110818)	470471.03	3751741.87	2.00163	(16110818)

470470.05 3751722.82 2.01868 (16110818) 470470.19
3751703.36 2.04449 (14051420)
470470.19 3751683.75 2.06934 (14051420) 470470.33
3751664.28 2.08912 (14051420)
470470.33 3751642.41 2.10780 (14051420) 470470.47
3751621.82 2.11790 (14051420)
470470.19 3751599.81 2.12085 (14051420) 470470.61
3751578.79 2.11890 (14051420)
470469.62 3751555.94 2.09707 (14051420) 470470.05
3751512.49 2.05062 (14051420)
470468.64 3751414.59 1.95691 (16062003) 470469.76
3751385.25 2.00127 (16062003)
470468.65 3751358.95 2.00895 (16062003) 470462.93
3751325.56 1.99438 (16062003)
470461.98 3751310.62 1.98845 (13050223) 470462.61
3751296.63 1.98169 (13050223)
470462.61 3751283.28 1.97114 (13050223) 470462.61
3751269.92 1.95651 (13050223)
470462.93 3751254.35 1.93801 (13050223) 470461.98
3751240.67 1.92095 (13050223)
470463.25 3751227.64 1.91523 (13050223) 470756.39
3751290.59 2.62923 (14100421)
470797.72 3751268.33 2.72207 (14100421) 470891.19
3751226.38 3.03353 (13083002)
470940.78 3751191.82 3.15038 (15090923) 471000.61
3750923.63 2.82574 (15031222)
471029.26 3750923.63 2.85392 (15031222) 471056.29
3750923.90 2.97236 (14072222)
471077.91 3750924.44 3.07351 (14072222) 471097.64
3750924.44 3.37203 (14072222)
471118.18 3750924.98 3.73099 (15073004) 471138.99
3750927.42 4.10127 (14070703)
471160.07 3750928.77 4.43326 (14070703) 471181.15
3750931.47 5.06992 (12111622)
471201.69 3750930.93 5.42125 (12111622) 471222.50
3750931.47 5.57348 (15102720)
471244.13 3750931.20 5.86229 (15102720) 471264.40
3750931.74 6.08914 (15102720)
471284.40 3750931.74 6.24539 (13090322) 471305.75
3750931.74 6.32963 (13090322)
471324.67 3750930.93 6.17462 (13090322) 471343.05
3750930.12 6.00522 (13070301)
471363.86 3750929.04 5.87572 (14092602) 471381.96
3750928.77 5.83656 (14092602)
471400.88 3750928.23 5.82897 (15091223) 471421.15
3750927.96 5.79839 (15091223)
471440.59 3750928.11 5.71265 (12091920) 471461.83
3750927.45 5.61737 (12091920)
471479.76 3750927.95 5.54272 (13090522) 471499.68
3750927.62 5.48937 (13090522)
471519.26 3750928.78 5.43052 (13090522) 471537.02
3750929.61 5.52746 (13090522)
471556.77 3750930.94 5.54527 (13090522) 471580.68
3750934.09 5.78063 (13090522)
471624.00 3750940.23 5.90595 (13090322) 471795.90
3750950.11 5.67911 (14070402)
471796.29 3750967.88 5.74031 (14070402) 471796.69
3750987.22 5.77026 (15100222)
471797.47 3751006.75 5.70952 (15100222) 471796.69
3751025.30 5.72768 (15100222)
471795.90 3751046.40 5.76682 (12092021) 471796.69
3751072.96 5.77381 (12092021)
471797.47 3751143.85 5.74759 (12092021) 471833.01
3751143.85 5.38955 (12092021)
471867.38 3751144.05 4.81745 (12081722) 471891.02
3751144.44 4.02832 (12081722)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NOX IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471916.60	3751144.24	3.24981	(12081621)	471939.45	3751144.24	3.05418	(14083024)
471963.08	3751144.44	2.85172	(15041821)	471984.17	3751144.05	2.78411	(15041821)
471999.02	3751163.38	2.78516	(15041821)	472000.19	3751199.12	3.11200	(15092721)
471999.80	3751230.56	3.76667	(16061922)	472000.38	3751251.46	4.22754	(16061922)
472000.19	3751281.15	4.51526	(14091022)	472001.95	3751347.94	4.98452	(12080621)
472036.90	3751348.52	4.50190	(12080624)	472063.07	3751349.31	4.31281	(12080524)
472084.56	3751348.33	4.11362	(13063022)	472104.87	3751348.72	3.85283	(13082222)
472127.33	3751348.52	3.44723	(12081422)	472150.76	3751349.70	3.04139	(14091223)
472171.47	3751349.50	2.83904	(12081622)	472194.12	3751349.11	2.74662	(15081620)
472222.63	3751348.72	2.61657	(16082920)	472247.83	3751349.50	2.50544	(16082920)
472269.70	3751349.11	2.35625	(16082920)	472290.40	3751350.28	2.30914	(16082920)
472313.64	3751350.48	2.26030	(16082920)	472333.76	3751351.26	2.21366	(16082920)
472354.85	3751351.26	2.11302	(16082920)	472377.70	3751351.06	2.02585	(16082920)
472401.72	3751351.06	1.93433	(16081620)	472425.55	3751351.84	1.82621	(15102418)
472445.67	3751350.67	1.79536	(15102418)	472463.24	3751350.87	1.74453	(15102418)
472484.14	3751350.87	1.70403	(15102418)	472503.87	3751351.26	1.67431	(15102418)
472523.79	3751351.26	1.65144	(15102418)	472543.32	3751351.26	1.63105	(15102418)
472563.24	3751352.24	1.60740	(15102418)	472582.57	3751352.04	1.58393	(15102418)
472601.32	3751352.04	1.56076	(15102418)	472606.79	3751367.27	1.55484	(15091321)

```
       472607.57   3751396.37        1.57105  (15091321)                472608.55
       3751432.11        1.59494  (15070221)
       472608.94   3751462.58        1.60874  (15070221)                472609.52
       3751497.15        1.63281  (14072920)
       472610.70   3751553.78        1.67620  (12080920)                472665.97
       3751553.98        1.58616  (12080920)
       472690.38   3751553.59        1.54988  (12080920)                472713.50
       3751554.27        1.52335  (12080920)
       472734.64   3751554.04        1.49444  (12080920)                472759.46
       3751554.04        1.46050  (12080920)
       472781.75   3751554.50        1.43287  (12080920)                472849.76
       3751556.11        1.37808  (12080920)
       472871.82   3751556.11        1.35681  (12080920)                472895.25
       3751555.65        1.33335  (12080920)
       472922.60   3751555.88        1.30965  (12080920)                473092.41
       3751802.31        1.20440  (13082619)
       473204.80   3751856.81        1.12580  (13082920)                472991.21
       3752083.31        1.30378  (16082919)
       473295.12   3752052.49        1.06427  (13090121)                473356.76
       3752050.34        1.02297  (12080821)
       473495.10   3751996.58        0.95334  (13070920)                473486.50
       3751917.74        0.95529  (13082920)
       473392.60   3752058.22        1.00187  (13090121)                473464.28
       3752082.59        0.96596  (13090121)
       473550.29   3752087.61        0.91934  (13090121)                473584.69
       3752089.76        0.90443  (13090121)
       472765.59   3752474.09        1.47252  (16062023)                470432.16
       3750483.93        2.56788  (16100620)
       469244.06   3754182.82        0.56215  (14091624)                469596.75
       3750785.65        0.95244  (15021122)
       470466.55   3750530.27        2.93745  (12091321)                469319.29
       3749244.53        0.58789  (15100924)
       469229.64   3749502.19        0.62183  (15031221)                468465.38
       3749582.33        0.50625  (14051321)
       471438.37   3750129.76        3.28097  (16102220)                471657.54
       3749918.78        2.45201  (14092602)
       471732.91   3749916.52        2.32702  (15091223)                471710.30
       3750132.80        2.88508  (15091223)
       471273.89   3750119.77        3.44360
       (15073004)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        08:57:14

                     PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                                    ** CONC OF NOX      IN
                                    MICROGRAMS/M**3                          **


                                                    DATE
                                                                                NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       6.32963  ON 13090322: AT (  471305.75,  3750931.74,
536.50,   536.50,    2.00)  DC
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1638 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1039 Calm Hours Identified

A Total of   599 Missing Hours Identified (1.37 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM10\14064 Ops
PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
```

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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL2         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL3         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL4         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL5         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL6         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL7         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL8         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL9         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL10        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL11        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL12        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL13        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL14        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL15        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL16        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL17        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL18        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL19        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL20        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL21        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL22        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL23        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL24        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL25        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL26        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL27        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL28        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL29        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL30        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL31        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL32        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL33        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL34        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL35        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL36        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL37        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL38        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL39        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL40        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL41        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL48        0.0031373472     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
```

```
   INCLUDED "14064 Ops PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM10.sum"
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM10\14064 Ops
PM10.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM10.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL2         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL3         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL4         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL5         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL6         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL7         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL8         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL9         0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL10        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL11        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL12        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL13        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL14        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL15        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL16        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL17        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL18        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL19        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL20        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL21        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL22        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL23        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL24        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL25        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL26        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL27        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL28        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL29        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL30        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL31        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL32        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL33        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL34        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL35        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL36        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL37        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL38        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL39        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL40        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL41        0.0031373472     5.000    43.702     1.400
   SRCPARAM VOL48        0.0031373472     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops PM10.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM10.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM10.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:08:23

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: PM_10

**Model Calculates  1 Short Term Average(s) of:  24-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
PM10.err
**File for Summary of Results:   14064 Ops
PM10.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	
VOL1	0	0.31373E-02	471175.5	3752366.4	510.2	5.00	43.70	1.40	YES
VOL2	0	0.31373E-02	471362.2	3752367.6	512.4	5.00	43.70	1.40	YES
VOL3	0	0.31373E-02	471550.1	3752368.4	518.9	5.00	43.70	1.40	YES
VOL4	0	0.31373E-02	471609.6	3752371.6	516.0	5.00	43.70	1.40	YES
VOL5	0	0.31373E-02	471796.7	3752342.2	515.1	5.00	43.70	1.40	YES
VOL6	0	0.31373E-02	471984.7	3752344.6	513.6	5.00	43.70	1.40	YES
VOL7	0	0.31373E-02	472003.7	3752347.0	512.1	5.00	43.70	1.40	YES
VOL8	0	0.31373E-02	472002.9	3752159.1	521.6	5.00	43.70	1.40	YES
VOL9	0	0.31373E-02	471814.2	3752156.7	520.7	5.00	43.70	1.40	YES
VOL10	0	0.31373E-02	471628.6	3752181.3	526.8	5.00	43.70	1.40	YES
VOL11	0	0.31373E-02	471440.7	3752181.3	527.4	5.00	43.70	1.40	YES
VOL12	0	0.31373E-02	471253.6	3752180.5	518.9	5.00	43.70	1.40	YES
VOL13	0	0.31373E-02	471092.6	3752217.7	509.6	5.00	43.70	1.40	YES
VOL14	0	0.31373E-02	471074.4	3752029.0	516.1	5.00	43.70	1.40	YES
VOL15	0	0.31373E-02	471263.9	3751992.5	521.1	5.00	43.70	1.40	YES
VOL16	0	0.31373E-02	471452.6	3751994.1	530.0	5.00	43.70	1.40	YES
VOL17	0	0.31373E-02	471640.5	3751992.5	534.9	5.00	43.70	1.40	YES
VOL18	0	0.31373E-02	471827.7	3751968.0	533.0	5.00	43.70	1.40	YES
VOL19	0	0.31373E-02	472002.9	3751970.3	527.9	5.00	43.70	1.40	YES
VOL20	0	0.31373E-02	471845.1	3751780.0	538.8	5.00	43.70	1.40	YES
VOL21	0	0.31373E-02	471657.2	3751803.8	536.0	5.00	43.70	1.40	YES
VOL22	0	0.31373E-02	471468.5	3751806.2	528.3	5.00	43.70	1.40	YES
VOL23	0	0.31373E-02	471280.5	3751807.0	525.0	5.00	43.70	1.40	YES

VOL24 0 0.31373E-02 471093.4 3751841.9 515.6 5.00 43.70 1.40
YES
VOL25 0 0.31373E-02 470978.4 3751841.9 518.1 5.00 43.70 1.40
YES
VOL26 0 0.31373E-02 471014.1 3751654.8 520.4 5.00 43.70 1.40
YES
VOL27 0 0.31373E-02 471201.2 3751654.8 525.1 5.00 43.70 1.40
YES
VOL28 0 0.31373E-02 471389.2 3751619.1 534.9 5.00 43.70 1.40
YES
VOL29 0 0.31373E-02 471577.9 3751616.7 529.0 5.00 43.70 1.40
YES
VOL30 0 0.31373E-02 471724.6 3751620.7 533.8 5.00 43.70 1.40
YES
VOL31 0 0.31373E-02 471941.0 3751865.7 534.6 5.00 43.70 1.40
YES
VOL32 0 0.31373E-02 471795.2 3751684.9 537.3 5.00 43.70 1.40
YES
VOL33 0 0.31373E-02 471577.9 3751434.3 531.1 5.00 43.70 1.40
YES
VOL34 0 0.31373E-02 471390.0 3751431.9 537.3 5.00 43.70 1.40
YES
VOL35 0 0.31373E-02 471202.0 3751467.6 526.8 5.00 43.70 1.40
YES
VOL36 0 0.31373E-02 471065.7 3751504.9 522.0 5.00 43.70 1.40
YES
VOL37 0 0.31373E-02 471656.4 3751514.4 529.5 5.00 43.70 1.40
YES
VOL38 0 0.31373E-02 471522.4 3751324.1 529.0 5.00 43.70 1.40
YES
VOL39 0 0.31373E-02 471332.9 3751322.5 529.5 5.00 43.70 1.40
YES
VOL40 0 0.31373E-02 471282.9 3751321.7 528.2 5.00 43.70 1.40
YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41	0	0.31373E-02	471233.8	3751388.3	528.5	5.00	43.70	1.40
YES								
VOL48	0	0.31373E-02	471084.5	3752407.2	506.8	5.00	43.70	1.40
YES								

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL48 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
		VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
		VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
		VOL41 , VOL48 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0,
499.3, 499.3, 2.0);
(472478.0, 3752183.1, 505.1, 505.1, 2.0); (472148.1, 3752531.5,
495.2, 502.0, 2.0);
(472052.1, 3752531.2, 499.4, 512.0, 2.0); (471975.5, 3752531.2,
500.5, 514.0, 2.0);
(471896.1, 3752530.9, 503.4, 513.0, 2.0); (471840.8, 3752529.9,
503.4, 513.0, 2.0);
(471816.6, 3752527.1, 500.6, 513.0, 2.0); (471736.8, 3752557.9,
501.5, 501.5, 2.0);
(471696.6, 3752558.9, 500.0, 500.0, 2.0); (471627.3, 3752556.2,
501.9, 512.0, 2.0);
(471584.6, 3752556.8, 504.5, 507.0, 2.0); (471560.0, 3752556.2,
504.6, 507.0, 2.0);
(471534.3, 3752554.9, 503.2, 509.0, 2.0); (471514.9, 3752554.9,
502.2, 519.0, 2.0);
(471486.8, 3752555.7, 503.1, 503.1, 2.0); (471465.7, 3752555.4,
503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5,
500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5,
503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9,
506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7,
505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9,
505.9, 505.9, 2.0);
(471205.9, 3752552.9, 506.2, 506.2, 2.0); (471173.2, 3752552.4,
506.5, 506.5, 2.0);
(471135.7, 3752552.5, 506.1, 506.1, 2.0); (471093.2, 3752551.5,
505.4, 505.4, 2.0);
(471059.4, 3752551.7, 504.7, 504.7, 2.0); (471020.5, 3752551.2,
503.1, 503.1, 2.0);
(470981.0, 3752563.6, 502.1, 502.1, 2.0); (470980.4, 3752552.2,
502.5, 502.5, 2.0);
(470980.1, 3752535.6, 503.0, 503.0, 2.0); (470979.9, 3752517.2,
503.7, 503.7, 2.0);
(470980.1, 3752499.8, 504.0, 504.0, 2.0); (470980.2, 3752479.8,
504.0, 504.0, 2.0);
(470980.4, 3752459.4, 504.6, 504.6, 2.0); (470980.2, 3752433.2,
505.4, 505.4, 2.0);
(470980.1, 3752404.0, 506.0, 506.0, 2.0); (470927.1, 3752402.7,
504.9, 504.9, 2.0);
(470907.9, 3752402.7, 503.1, 503.1, 2.0); (470887.3, 3752402.7,
500.9, 505.0, 2.0);
(470869.7, 3752402.0, 500.7, 500.7, 2.0); (470849.6, 3752401.9,
500.3, 500.3, 2.0);
(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2,
499.7, 499.7, 2.0);
(470791.5, 3752402.5, 499.2, 499.2, 2.0); (470773.6, 3752401.9,
498.6, 498.6, 2.0);
(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7,
497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5,
500.2, 500.2, 2.0);
(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8,
500.8, 500.8, 2.0);
(470732.9, 3752218.8, 501.2, 501.2, 2.0); (470732.5, 3752182.1,
501.8, 501.8, 2.0);
(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8,
502.5, 502.5, 2.0);
(470670.1, 3752144.5, 502.1, 502.1, 2.0); (470651.7, 3752144.3,
502.0, 502.0, 2.0);
(470633.5, 3752144.1, 501.5, 501.5, 2.0); (470615.5, 3752144.0,

500.9, 500.9, 2.0); (470596.0, 3752143.3, 500.2, 500.2, 2.0); (470577.0, 3752143.5, 500.0, 500.0, 2.0);
(470553.6, 3752143.5, 499.7, 499.7, 2.0); (470528.6, 3752142.6, 498.8, 498.8, 2.0);
(470508.0, 3752142.8, 497.6, 497.6, 2.0); (470485.6, 3752142.5, 496.3, 496.3, 2.0);
(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2, 497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7, 499.7, 499.7, 2.0);
(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2, 500.1, 500.1, 2.0);
(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9, 499.0, 499.0, 2.0);
(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);
(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
(470462.0, 3751310.6, 512.6, 512.6, 2.0); (470462.6, 3751296.6, 512.4, 512.4, 2.0);
(470462.6, 3751283.3, 512.0, 512.0, 2.0); (470462.6, 3751269.9, 511.1, 511.1, 2.0);
(470462.9, 3751254.3, 509.6, 512.0, 2.0); (470462.0, 3751240.7, 508.9, 508.9, 2.0);
(470463.2, 3751227.6, 509.4, 509.4, 2.0); (470756.4, 3751290.6, 507.7, 525.0, 2.0);
(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
(470940.8, 3751191.8, 512.1, 512.1, 2.0); (471000.6, 3750923.6, 523.8, 523.8, 2.0);
(471029.3, 3750923.6, 523.7, 523.7, 2.0); (471056.3, 3750923.9, 524.2, 542.0, 2.0);
(471077.9, 3750924.4, 524.8, 543.0, 2.0); (471097.6, 3750924.4,

525.7, 543.0, 2.0);
(471118.2, 3750925.0, 528.0, 543.0, 2.0); (471139.0, 3750927.4,
529.8, 543.0, 2.0);
(471160.1, 3750928.8, 530.8, 543.0, 2.0); (471181.1, 3750931.5,
532.3, 543.0, 2.0);
(471201.7, 3750930.9, 533.3, 543.0, 2.0); (471222.5, 3750931.5,
533.7, 543.0, 2.0);
(471244.1, 3750931.2, 534.8, 543.0, 2.0); (471264.4, 3750931.7,
535.7, 538.0, 2.0);
(471284.4, 3750931.7, 536.5, 536.5, 2.0); (471305.8, 3750931.7,
536.5, 536.5, 2.0);
(471324.7, 3750930.9, 535.8, 535.8, 2.0); (471343.0, 3750930.1,
534.9, 534.9, 2.0);
(471363.9, 3750929.0, 534.7, 534.7, 2.0); (471382.0, 3750928.8,
534.8, 534.8, 2.0);
(471400.9, 3750928.2, 535.0, 535.0, 2.0); (471421.1, 3750928.0,
535.4, 535.4, 2.0);
(471440.6, 3750928.1, 535.6, 535.6, 2.0); (471461.8, 3750927.4,
535.7, 535.7, 2.0);
(471479.8, 3750927.9, 535.9, 535.9, 2.0); (471499.7, 3750927.6,
536.2, 536.2, 2.0);
(471519.3, 3750928.8, 536.6, 549.0, 2.0); (471537.0, 3750929.6,
538.0, 549.0, 2.0);
(471556.8, 3750930.9, 539.6, 549.0, 2.0); (471580.7, 3750934.1,
541.7, 549.0, 2.0);
(471624.0, 3750940.2, 545.0, 549.0, 2.0); (471795.9, 3750950.1,
548.4, 548.4, 2.0);
(471796.3, 3750967.9, 547.3, 547.3, 2.0); (471796.7, 3750987.2,
545.3, 547.0, 2.0);
(471797.5, 3751006.8, 542.7, 549.0, 2.0); (471796.7, 3751025.3,
542.0, 547.0, 2.0);
(471795.9, 3751046.4, 541.1, 541.1, 2.0); (471796.7, 3751073.0,
540.1, 540.1, 2.0);
(471797.5, 3751143.8, 537.7, 537.7, 2.0); (471833.0, 3751143.8,
537.0, 537.0, 2.0);
(471867.4, 3751144.0, 534.9, 534.9, 2.0); (471891.0, 3751144.4,
532.9, 532.9, 2.0);
(471916.6, 3751144.2, 530.9, 530.9, 2.0); (471939.5, 3751144.2,
529.4, 529.4, 2.0);
(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0,
524.4, 533.0, 2.0);
(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1,
530.8, 530.8, 2.0);
(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5,
534.3, 534.3, 2.0);
(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9,
537.0, 537.0, 2.0);
(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
536.5, 536.5, 2.0);
(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
534.6, 534.6, 2.0);
(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1,
528.2, 531.0, 2.0);
(472222.6, 3751348.7, 525.4, 536.0, 2.0); (472247.8, 3751349.5,
523.2, 536.0, 2.0);
(472269.7, 3751349.1, 520.9, 536.0, 2.0); (472290.4, 3751350.3,
520.7, 535.0, 2.0);
(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3,
520.6, 532.0, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
(472401.7, 3751351.1, 513.6, 533.0, 2.0); (472425.5, 3751351.8, 511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9, 509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3, 506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3, 506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0, 505.8, 505.8, 2.0);
(472601.3, 3751352.0, 505.3, 505.3, 2.0); (472606.8, 3751367.3, 504.3, 504.3, 2.0);
(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
(472608.9, 3751462.6, 504.4, 504.4, 2.0); (472609.5, 3751497.1, 505.0, 505.0, 2.0);
(472610.7, 3751553.8, 505.4, 505.4, 2.0); (472666.0, 3751554.0, 501.3, 501.3, 2.0);
(472690.4, 3751553.6, 499.8, 499.8, 2.0); (472713.5, 3751554.3, 499.2, 499.2, 2.0);
(472734.6, 3751554.0, 497.9, 497.9, 2.0); (472759.5, 3751554.0, 496.2, 496.2, 2.0);
(472781.8, 3751554.5, 494.9, 499.0, 2.0); (472849.8, 3751556.1, 495.4, 495.4, 2.0);
(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
(472922.6, 3751555.9, 493.8, 493.8, 2.0); (473092.4, 3751802.3, 486.1, 486.1, 2.0);
(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
(473295.1, 3752052.5, 478.7, 478.7, 2.0); (473356.8, 3752050.3, 476.8, 476.8, 2.0);
(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);
(472765.6, 3752474.1, 477.2, 495.0, 2.0); (470432.2, 3750483.9, 532.6, 532.6, 2.0);
(469244.1, 3754182.8, 471.3, 485.0, 2.0); (469596.8, 3750785.6, 493.4, 493.4, 2.0);
(470466.5, 3750530.3, 535.0, 535.0, 2.0); (469319.3, 3749244.5, 500.0, 500.0, 2.0);
(469229.6, 3749502.2, 503.4, 503.4, 2.0); (468465.4, 3749582.3, 490.5, 490.5, 2.0);
(471438.4, 3750129.8, 539.2, 539.2, 2.0); (471657.5, 3749918.8, 535.4, 535.4, 2.0);
(471732.9, 3749916.5, 534.7, 534.7, 2.0); (471710.3, 3750132.8, 537.0, 537.0, 2.0);
(471273.9, 3750119.8, 540.5, 540.5, 2.0);

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KRAL_V9_ADJU\KRAL_v9.SFC Met
Version: 16216
Profile file:
KRAL_V9_ADJU\KRAL_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93	55.	10.1	288.1	2.0
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	1.00	3.05				

```
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:08:23

                     PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                 VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                 VOL11       , VOL12       , VOL13       ,
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VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	0.29985	(12121824)	472482.23	3752398.04	0.31557	(12120224)
472477.97	3752183.12	0.35787	(12120224)	472148.10	3752531.53	0.46195	(12121824)
472052.12	3752531.22	0.56976	(13121924)	471975.52	3752531.22	0.64721	(13121924)
471896.06	3752530.90	0.69200	(13121924)	471840.76	3752529.94	0.71090	(13121924)
471816.60	3752527.08	0.71286	(13121924)	471736.82	3752557.91	0.67359	(13121924)
471696.59	3752558.87	0.68253	(13121924)	471627.29	3752556.22	0.72957	(13121924)
471584.60	3752556.76	0.75246	(13121924)	471560.01	3752556.22	0.75623	(13121924)
471534.35	3752554.87	0.75160	(13121924)	471514.89	3752554.87	0.74284	(13121924)
471486.79	3752555.68	0.73922	(13121924)	471465.72	3752555.41	0.73568	(13121924)
471442.21	3752554.98	0.72455	(13121924)	471419.71	3752552.46	0.72356	(13121924)
471394.22	3752552.91	0.72475	(13121924)	471363.44	3752552.46	0.73243	(13121924)
471332.68	3752553.31	0.73493	(13121924)	471307.62	3752552.94	0.73596	(13121924)
471284.05	3752552.70	0.73194	(13121924)	471261.98	3752552.70	0.72986	(13121924)
471241.90	3752552.70	0.73037	(13121924)	471223.15	3752552.86	0.73255	(13121924)
471205.90	3752552.86	0.73532	(13121924)	471173.21	3752552.37	0.74115	(13121924)
471135.70	3752552.53	0.73842	(13121924)	471093.22	3752551.54	0.72112	(13121924)
471059.37	3752551.70	0.68265	(13121924)	471020.54	3752551.20	0.62064	(13121924)
470981.05	3752563.65	0.53024	(13121924)	470980.39	3752552.20	0.55166	(13121924)
470980.06	3752535.61	0.58672	(13121924)	470979.89	3752517.19	0.63081	(13121924)
470980.06	3752499.76	0.67754	(13121924)	470980.22	3752479.85	0.73469	(13121924)
470980.39	3752459.44	0.79774	(13121924)	470980.22	3752433.22	0.86538	(13121924)
470980.06	3752404.02	0.91334	(13121924)	470927.12	3752402.69	0.66526	(13121924)
470907.87	3752402.69	0.60742	(13121924)	470887.30	3752402.69	0.55581	(13121924)
470869.71	3752402.03	0.52285	(13121924)	470849.63	3752401.86	0.48989	(13121924)
470829.39	3752402.19	0.46071	(13121924)	470811.63	3752402.19	0.43810	(13121924)
470791.55	3752402.53	0.41478	(13121924)	470773.63	3752401.86	0.39617	(13121924)

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      470749.24   3752402.19        0.37281  (13121924)                470727.72
      3752391.74        0.35874  (13121924)
      470733.04   3752338.97        0.38304  (13121924)                470733.70
      3752320.55        0.38980b (16120624)
      470734.20   3752291.01        0.40049b (16120624)                470733.20
      3752265.78        0.40707b (16120624)
      470732.87   3752218.81        0.42077b (16120624)                470732.54
      3752182.14        0.43140b (16120624)
      470732.37   3752145.29        0.44313b (16120624)                470692.38
      3752144.80        0.40363b (16120624)
      470670.14   3752144.46        0.38399b (16120624)                470651.72
      3752144.30        0.36930b (16120624)
      470633.46   3752144.13        0.35495b (16120624)                470615.54
      3752143.97        0.34166b (16120624)
      470595.95   3752143.30        0.32809b (16120624)                470577.03
      3752143.47        0.31613b (16120624)
      470553.63   3752143.47        0.30238b (16120624)                470528.57
      3752142.64        0.28818b (16120624)
      470507.99   3752142.80        0.27675b (16120624)                470485.59
      3752142.47        0.26510b (16120624)
      470471.60   3752131.63        0.26163  (12122024)                470471.60
      3752109.21        0.26866  (12122024)
      470471.32   3752085.22        0.27530  (12122024)                470471.46
      3752037.68        0.28835  (12122024)
      470471.74   3752013.00        0.29452  (12122024)                470470.89
      3751987.18        0.30048m (13010324)
      470470.89   3751965.74        0.30633m (13010324)                470470.75
      3751944.44        0.31186m (13010324)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:08:23

                     PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                             SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                 VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                  VOL11       , VOL12       , VOL13       ,
                  VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                  VOL19       , VOL20       , VOL21       ,
                  VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                  VOL27       , VOL28       ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF PM_10    IN
                                        MICROGRAMS/M**3                         **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      470470.61   3751924.27        0.31632m (13010324)                470470.47
      3751905.93        0.31988m (13010324)
      470470.89   3751884.06        0.32543m (13010324)                470470.61
      3751864.03        0.32921m (13010324)
      470470.33   3751844.00        0.33211m (13010324)                470470.19
      3751824.53        0.33372m (13010324)
      470470.33   3751805.77        0.33576m (13010324)                470470.33
      3751788.00        0.33815  (12010124)
      470470.33   3751761.19        0.34778  (12010124)                470471.03
      3751741.87        0.35494  (12010124)
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470470.05   3751722.82        0.36067  (12010124)                470470.19
3751703.36        0.36676  (12010124)
470470.19   3751683.75        0.37162  (12010124)                470470.33
3751664.28        0.37569  (12010124)
470470.33   3751642.41        0.37964  (12010124)                470470.47
3751621.82        0.38218  (12010124)
470470.19   3751599.81        0.38352  (12010124)                470470.61
3751578.79        0.38409  (12010124)
470469.62   3751555.94        0.38133  (12010124)                470470.05
3751512.49        0.37517  (12010124)
470468.64   3751414.59        0.36206  (13121524)                470469.76
3751385.25        0.37006  (13121524)
470468.65   3751358.95        0.37149  (13121524)                470462.93
3751325.56        0.36860  (13121524)
470461.98   3751310.62        0.36738  (13121524)                470462.61
3751296.63        0.36593  (13121524)
470462.61   3751283.28        0.36379  (13121524)                470462.61
3751269.92        0.36097  (13121524)
470462.93   3751254.35        0.35744  (13121524)                470461.98
3751240.67        0.35406  (13121524)
470463.25   3751227.64        0.35273  (13121524)                470756.39
3751290.59        0.50111  (13121524)
470797.72   3751268.33        0.51388  (13121524)                470891.19
3751226.38        0.55561  (13121524)
470940.78   3751191.82        0.55741  (13122424)                471000.61
3750923.63        0.37412m (15020724)
471029.26   3750923.63        0.38249  (15121524)                471056.29
3750923.90        0.39603  (15121524)
471077.91   3750924.44        0.40549  (15121524)                471097.64
3750924.44        0.41114  (15121524)
471118.18   3750924.98        0.41829  (15121524)                471138.99
3750927.42        0.42598  (15121524)
471160.07   3750928.77        0.43482  (12021624)                471181.15
3750931.47        0.46903m (15020724)
471201.69   3750930.93        0.49089m (15020724)                471222.50
3750931.47        0.49191  (15022224)
471244.13   3750931.20        0.51165  (15022224)                471264.40
3750931.74        0.52733  (15022224)
471284.40   3750931.74        0.53759  (15022224)                471305.75
3750931.74        0.53896  (15022224)
471324.67   3750930.93        0.52988  (15022224)                471343.05
3750930.12        0.51597  (15022224)
471363.86   3750929.04        0.50298  (15022224)                471381.96
3750928.77        0.49398  (15022224)
471400.88   3750928.23        0.48450  (15022224)                471421.15
3750927.96        0.47428  (15022224)
471440.59   3750928.11        0.46307  (15022224)                471461.83
3750927.45        0.45046  (15022224)
471479.76   3750927.95        0.44270  (15022224)                471499.68
3750927.62        0.43515  (15022224)
471519.26   3750928.78        0.43067  (15022224)                471537.02
3750929.61        0.44289  (15022224)
471556.77   3750930.94        0.45042  (15022224)                471580.68
3750934.09        0.46749  (15022224)
471624.00   3750940.23        0.46711  (15022224)                471795.90
3750950.11        0.41550  (13111624)
471796.29   3750967.88        0.42923  (13111624)                471796.69
3750987.22        0.45139b (16120624)
471797.47   3751006.75        0.48368b (16120624)                471796.69
3751025.30        0.51175b (16120624)
471795.90   3751046.40        0.54817b (16120624)                471796.69
3751072.96        0.59067b (16120624)
471797.47   3751143.85        0.71827b (16120624)                471833.01
3751143.85        0.69740b (16120624)
471867.38   3751144.05        0.65990b (16120624)                471891.02
3751144.44        0.61559b (16120624)
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471916.60	3751144.24	0.53987b	(16120624)	471939.45	3751144.24	0.51873b	(16120624)
471963.08	3751144.44	0.49142b	(16120624)	471984.17	3751144.05	0.47398b	(16120624)
471999.02	3751163.38	0.48557b	(16120624)	472000.19	3751199.12	0.54026b	(16120624)
471999.80	3751230.56	0.61152b	(16120624)	472000.38	3751251.46	0.65332b	(16120624)
472000.19	3751281.15	0.69331b	(16120624)	472001.95	3751347.94	0.76648b	(16120624)
472036.90	3751348.52	0.71124b	(16120624)	472063.07	3751349.31	0.68313b	(16120624)
472084.56	3751348.33	0.65381b	(16120624)	472104.87	3751348.72	0.62546b	(16120624)
472127.33	3751348.52	0.59111b	(16120624)	472150.76	3751349.70	0.54522b	(16120624)
472171.47	3751349.50	0.52193b	(16120624)	472194.12	3751349.11	0.49519b	(16120624)
472222.63	3751348.72	0.46323b	(16120624)	472247.83	3751349.50	0.43543b	(16120624)
472269.70	3751349.11	0.41066b	(16120624)	472290.40	3751350.28	0.39976b	(16120624)
472313.64	3751350.48	0.38835b	(16120624)	472333.76	3751351.26	0.37850b	(16120624)
472354.85	3751351.26	0.35883b	(16120624)	472377.70	3751351.06	0.34481b	(16120624)
472401.72	3751351.06	0.33122b	(16120624)	472425.55	3751351.84	0.31859b	(16120624)
472445.67	3751350.67	0.31000b	(16120624)	472463.24	3751350.87	0.30156b	(16120624)
472484.14	3751350.87	0.29232b	(16120624)	472503.87	3751351.26	0.28484b	(16120624)
472523.79	3751351.26	0.27828b	(16120624)	472543.32	3751351.26	0.27227b	(16120624)
472563.24	3751352.24	0.26608b	(16120624)	472582.57	3751352.04	0.26009b	(16120624)
472601.32	3751352.04	0.25442b	(16120624)	472606.79	3751367.27	0.25422b	(16120624)

```
       472607.57   3751396.37        0.25786b (16120624)                472608.55
       3751432.11        0.26283b (16120624)
       472608.94   3751462.58        0.26612b (16120624)                472609.52
       3751497.15        0.27057b (16120624)
       472610.70   3751553.78        0.27685b (16120624)                472665.97
       3751553.98        0.25522b (16120624)
       472690.38   3751553.59        0.24654b (16120624)                472713.50
       3751554.27        0.23945b (16120624)
       472734.64   3751554.04        0.23266b (16120624)                472759.46
       3751554.04        0.22491b (16120624)
       472781.75   3751554.50        0.21871  (16051524)                472849.76
       3751556.11        0.20737  (16051524)
       472871.82   3751556.11        0.20339  (16051524)                472895.25
       3751555.65        0.19912  (16051524)
       472922.60   3751555.88        0.19463  (16051524)                473092.41
       3751802.31        0.19165  (12050124)
       473204.80   3751856.81        0.17814  (12050124)                472991.21
       3752083.31        0.19992  (12050124)
       473295.12   3752052.49        0.16156  (12050124)                473356.76
       3752050.34        0.15479  (12050124)
       473495.10   3751996.58        0.14560  (12050124)                473486.50
       3751917.74        0.14877  (12050124)
       473392.60   3752058.22        0.15052  (12050124)                473464.28
       3752082.59        0.14198  (12050124)
       473550.29   3752087.61        0.13395  (12050124)                473584.69
       3752089.76        0.13125  (12050124)
       472765.59   3752474.09        0.19251  (12120224)                470432.16
       3750483.93        0.23206  (12122924)
       469244.06   3754182.82        0.04344  (15030124)                469596.75
       3750785.65        0.15339  (13121524)
       470466.55   3750530.27        0.26438  (12122924)                469319.29
       3749244.53        0.05762  (13010424)
       469229.64   3749502.19        0.07021  (13010424)                468465.38
       3749582.33        0.06322  (12010424)
       471438.37   3750129.76        0.22148  (15022224)                471657.54
       3749918.78        0.15831  (15022224)
       471732.91   3749916.52        0.14659  (15022224)                471710.30
       3750132.80        0.18206  (15022224)
       471273.89   3750119.77        0.20540
       (15022224)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        09:08:23

                     PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                    ** CONC OF PM_10    IN
                                    MICROGRAMS/M**3                      **


                                                    DATE
                                                                                NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       0.91334  ON 13121924: AT (  470980.06,  3752404.02,
506.00,   506.00,    2.00)  DC
```

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1638 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1039 Calm Hours Identified

A Total of   599 Missing Hours Identified (1.37 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM25\14064 Ops
PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
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   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL2         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL3         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL4         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL5         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL6         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL7         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL8         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL9         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL10        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL11        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL12        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL13        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL14        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL15        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL16        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL17        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL18        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL19        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL20        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL21        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL22        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL23        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL24        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL25        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL26        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL27        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL28        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL29        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL30        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL31        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL32        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL33        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL34        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL35        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL36        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL37        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL38        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL39        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL40        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL41        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL48        0.0007194479     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
```

```
   INCLUDED "14064 Ops PM25.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM25.sum"
OU FINISHED
**
****************************************
** Project Parameters
****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.0.0
** Lakes Environmental Software Inc.
** Date: 10/7/2022
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM25\14064 Ops
PM25.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM25.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2         VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3         VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4         VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5         VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6         VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7         VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8         VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9         VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10        VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11        VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12        VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13        VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14        VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15        VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16        VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17        VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18        VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19        VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20        VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21        VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22        VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23        VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24        VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25        VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26        VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27        VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28        VOLUME     471389.172  3751619.077      534.860
```

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   LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
   LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
   LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
   LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
   LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
   LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
   LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
   LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
   LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
   LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
   LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
   LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
   LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
   LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL2         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL3         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL4         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL5         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL6         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL7         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL8         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL9         0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL10        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL11        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL12        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL13        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL14        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL15        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL16        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL17        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL18        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL19        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL20        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL21        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL22        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL23        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL24        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL25        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL26        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL27        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL28        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL29        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL30        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL31        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL32        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL33        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL34        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL35        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL36        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL37        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL38        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL39        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL40        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL41        0.0007194479     5.000    43.702     1.400
   SRCPARAM VOL48        0.0007194479     5.000    43.702     1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops PM25.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM25.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM25.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:19:36

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: PM_2.5

**Model Calculates  1 Short Term Average(s) of:  24-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     233 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
PM25.err
**File for Summary of Results:   14064 Ops
PM25.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
VOL1	0	0.71945E-03	471175.5	3752366.4	510.2	5.00	43.70	1.40	YES
VOL2	0	0.71945E-03	471362.2	3752367.6	512.4	5.00	43.70	1.40	YES
VOL3	0	0.71945E-03	471550.1	3752368.4	518.9	5.00	43.70	1.40	YES
VOL4	0	0.71945E-03	471609.6	3752371.6	516.0	5.00	43.70	1.40	YES
VOL5	0	0.71945E-03	471796.7	3752342.2	515.1	5.00	43.70	1.40	YES
VOL6	0	0.71945E-03	471984.7	3752344.6	513.6	5.00	43.70	1.40	YES
VOL7	0	0.71945E-03	472003.7	3752347.0	512.1	5.00	43.70	1.40	YES
VOL8	0	0.71945E-03	472002.9	3752159.1	521.6	5.00	43.70	1.40	YES
VOL9	0	0.71945E-03	471814.2	3752156.7	520.7	5.00	43.70	1.40	YES
VOL10	0	0.71945E-03	471628.6	3752181.3	526.8	5.00	43.70	1.40	YES
VOL11	0	0.71945E-03	471440.7	3752181.3	527.4	5.00	43.70	1.40	YES
VOL12	0	0.71945E-03	471253.6	3752180.5	518.9	5.00	43.70	1.40	YES
VOL13	0	0.71945E-03	471092.6	3752217.7	509.6	5.00	43.70	1.40	YES
VOL14	0	0.71945E-03	471074.4	3752029.0	516.1	5.00	43.70	1.40	YES
VOL15	0	0.71945E-03	471263.9	3751992.5	521.1	5.00	43.70	1.40	YES
VOL16	0	0.71945E-03	471452.6	3751994.1	530.0	5.00	43.70	1.40	YES
VOL17	0	0.71945E-03	471640.5	3751992.5	534.9	5.00	43.70	1.40	YES
VOL18	0	0.71945E-03	471827.7	3751968.0	533.0	5.00	43.70	1.40	YES
VOL19	0	0.71945E-03	472002.9	3751970.3	527.9	5.00	43.70	1.40	YES
VOL20	0	0.71945E-03	471845.1	3751780.0	538.8	5.00	43.70	1.40	YES
VOL21	0	0.71945E-03	471657.2	3751803.8	536.0	5.00	43.70	1.40	YES
VOL22	0	0.71945E-03	471468.5	3751806.2	528.3	5.00	43.70	1.40	YES
VOL23	0	0.71945E-03	471280.5	3751807.0	525.0	5.00	43.70	1.40	YES

```
 VOL24           0   0.71945E-03  471093.4 3751841.9   515.6     5.00    43.70     1.40
 YES
 VOL25           0   0.71945E-03  470978.4 3751841.9   518.1     5.00    43.70     1.40
 YES
 VOL26           0   0.71945E-03  471014.1 3751654.8   520.4     5.00    43.70     1.40
 YES
 VOL27           0   0.71945E-03  471201.2 3751654.8   525.1     5.00    43.70     1.40
 YES
 VOL28           0   0.71945E-03  471389.2 3751619.1   534.9     5.00    43.70     1.40
 YES
 VOL29           0   0.71945E-03  471577.9 3751616.7   529.0     5.00    43.70     1.40
 YES
 VOL30           0   0.71945E-03  471724.6 3751620.7   533.8     5.00    43.70     1.40
 YES
 VOL31           0   0.71945E-03  471941.0 3751865.7   534.6     5.00    43.70     1.40
 YES
 VOL32           0   0.71945E-03  471795.2 3751684.9   537.3     5.00    43.70     1.40
 YES
 VOL33           0   0.71945E-03  471577.9 3751434.3   531.1     5.00    43.70     1.40
 YES
 VOL34           0   0.71945E-03  471390.0 3751431.9   537.3     5.00    43.70     1.40
 YES
 VOL35           0   0.71945E-03  471202.0 3751467.6   526.8     5.00    43.70     1.40
 YES
 VOL36           0   0.71945E-03  471065.7 3751504.9   522.0     5.00    43.70     1.40
 YES
 VOL37           0   0.71945E-03  471656.4 3751514.4   529.5     5.00    43.70     1.40
 YES
 VOL38           0   0.71945E-03  471522.4 3751324.1   529.0     5.00    43.70     1.40
 YES
 VOL39           0   0.71945E-03  471332.9 3751322.5   529.5     5.00    43.70     1.40
 YES
 VOL40           0   0.71945E-03  471282.9 3751321.7   528.2     5.00    43.70     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:19:36

                     PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ
   SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - -

 VOL41           0   0.71945E-03  471233.8 3751388.3   528.5     5.00    43.70     1.40
 YES
 VOL48           0   0.71945E-03  471084.5 3752407.2   506.8     5.00    43.70     1.40
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:19:36

                     PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
	VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
	VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
	VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
	VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
	VOL41 , VOL48 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 ,
		VOL9 , VOL10 , VOL11 , VOL12 , VOL13 , VOL14 , VOL15 , VOL16 ,
		VOL17 , VOL18 , VOL19 , VOL20 , VOL21 , VOL22 , VOL23 , VOL24 ,
		VOL25 , VOL26 , VOL27 , VOL28 , VOL29 , VOL30 , VOL31 , VOL32 ,
		VOL33 , VOL34 , VOL35 , VOL36 , VOL37 , VOL38 , VOL39 , VOL40 ,
		VOL41 , VOL48 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472283.7, 3752641.0, 492.6, 492.6, 2.0); (472482.2, 3752398.0,
499.3, 499.3, 2.0);
(472478.0, 3752183.1, 505.1, 505.1, 2.0); (472148.1, 3752531.5,
495.2, 502.0, 2.0);
(472052.1, 3752531.2, 499.4, 512.0, 2.0); (471975.5, 3752531.2,
500.5, 514.0, 2.0);
(471896.1, 3752530.9, 503.4, 513.0, 2.0); (471840.8, 3752529.9,
503.4, 513.0, 2.0);
(471816.6, 3752527.1, 500.6, 513.0, 2.0); (471736.8, 3752557.9,
501.5, 501.5, 2.0);
(471696.6, 3752558.9, 500.0, 500.0, 2.0); (471627.3, 3752556.2,
501.9, 512.0, 2.0);
(471584.6, 3752556.8, 504.5, 507.0, 2.0); (471560.0, 3752556.2,
504.6, 507.0, 2.0);
(471534.3, 3752554.9, 503.2, 509.0, 2.0); (471514.9, 3752554.9,
502.2, 519.0, 2.0);
(471486.8, 3752555.7, 503.1, 503.1, 2.0); (471465.7, 3752555.4,
503.1, 503.1, 2.0);
(471442.2, 3752555.0, 501.3, 505.0, 2.0); (471419.7, 3752552.5,
500.3, 505.0, 2.0);
(471394.2, 3752552.9, 501.4, 501.4, 2.0); (471363.4, 3752552.5,
503.5, 503.5, 2.0);
(471332.7, 3752553.3, 505.8, 505.8, 2.0); (471307.6, 3752552.9,
506.9, 506.9, 2.0);
(471284.0, 3752552.7, 506.2, 506.2, 2.0); (471262.0, 3752552.7,
505.7, 505.7, 2.0);
(471241.9, 3752552.7, 505.6, 505.6, 2.0); (471223.1, 3752552.9,
505.9, 505.9, 2.0);
(471205.9, 3752552.9, 506.2, 506.2, 2.0); (471173.2, 3752552.4,
506.5, 506.5, 2.0);
(471135.7, 3752552.5, 506.1, 506.1, 2.0); (471093.2, 3752551.5,
505.4, 505.4, 2.0);
(471059.4, 3752551.7, 504.7, 504.7, 2.0); (471020.5, 3752551.2,
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502.5, 502.5, 2.0);
(470980.1, 3752535.6, 503.0, 503.0, 2.0); (470979.9, 3752517.2,
503.7, 503.7, 2.0);
(470980.1, 3752499.8, 504.0, 504.0, 2.0); (470980.2, 3752479.8,
504.0, 504.0, 2.0);
(470980.4, 3752459.4, 504.6, 504.6, 2.0); (470980.2, 3752433.2,
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(470980.1, 3752404.0, 506.0, 506.0, 2.0); (470927.1, 3752402.7,
504.9, 504.9, 2.0);
(470907.9, 3752402.7, 503.1, 503.1, 2.0); (470887.3, 3752402.7,
500.9, 505.0, 2.0);
(470869.7, 3752402.0, 500.7, 500.7, 2.0); (470849.6, 3752401.9,
500.3, 500.3, 2.0);
(470829.4, 3752402.2, 500.0, 500.0, 2.0); (470811.6, 3752402.2,
499.7, 499.7, 2.0);
(470791.5, 3752402.5, 499.2, 499.2, 2.0); (470773.6, 3752401.9,
498.6, 498.6, 2.0);
(470749.2, 3752402.2, 497.8, 497.8, 2.0); (470727.7, 3752391.7,
497.8, 497.8, 2.0);
(470733.0, 3752339.0, 499.9, 499.9, 2.0); (470733.7, 3752320.5,
500.2, 500.2, 2.0);
(470734.2, 3752291.0, 500.8, 500.8, 2.0); (470733.2, 3752265.8,
500.8, 500.8, 2.0);
(470732.9, 3752218.8, 501.2, 501.2, 2.0); (470732.5, 3752182.1,
501.8, 501.8, 2.0);
(470732.4, 3752145.3, 503.0, 503.0, 2.0); (470692.4, 3752144.8,
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(470670.1, 3752144.5, 502.1, 502.1, 2.0); (470651.7, 3752144.3,
502.0, 502.0, 2.0);
(470633.5, 3752144.1, 501.5, 501.5, 2.0); (470615.5, 3752144.0,

500.9, 500.9, 2.0); (470596.0, 3752143.3, 500.2, 500.2, 2.0); (470577.0, 3752143.5, 500.0, 500.0, 2.0);
(470553.6, 3752143.5, 499.7, 499.7, 2.0); (470528.6, 3752142.6, 498.8, 498.8, 2.0);
(470508.0, 3752142.8, 497.6, 497.6, 2.0); (470485.6, 3752142.5, 496.3, 496.3, 2.0);
(470471.6, 3752131.6, 496.1, 496.1, 2.0); (470471.6, 3752109.2, 497.3, 497.3, 2.0);
(470471.3, 3752085.2, 498.1, 498.1, 2.0); (470471.5, 3752037.7, 499.7, 499.7, 2.0);
(470471.7, 3752013.0, 500.0, 500.0, 2.0); (470470.9, 3751987.2, 500.1, 500.1, 2.0);
(470470.9, 3751965.7, 500.1, 500.1, 2.0); (470470.8, 3751944.4, 500.1, 500.1, 2.0);
(470470.6, 3751924.3, 499.6, 499.6, 2.0); (470470.5, 3751905.9, 499.0, 499.0, 2.0);
(470470.9, 3751884.1, 499.1, 499.1, 2.0); (470470.6, 3751864.0, 498.6, 498.6, 2.0);
(470470.3, 3751844.0, 497.9, 497.9, 2.0); (470470.2, 3751824.5, 496.6, 496.6, 2.0);
(470470.3, 3751805.8, 495.7, 499.0, 2.0); (470470.3, 3751788.0, 495.1, 502.0, 2.0);
(470470.3, 3751761.2, 497.6, 497.6, 2.0); (470471.0, 3751741.9, 499.5, 499.5, 2.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(470470.0, 3751722.8, 501.4, 501.4, 2.0); (470470.2, 3751703.4, 503.3, 503.3, 2.0);
(470470.2, 3751683.8, 504.9, 504.9, 2.0); (470470.3, 3751664.3, 506.2, 506.2, 2.0);
(470470.3, 3751642.4, 507.6, 507.6, 2.0); (470470.5, 3751621.8, 508.5, 508.5, 2.0);
(470470.2, 3751599.8, 509.0, 509.0, 2.0); (470470.6, 3751578.8, 509.1, 509.1, 2.0);
(470469.6, 3751555.9, 507.6, 507.6, 2.0); (470470.0, 3751512.5, 504.8, 512.0, 2.0);
(470468.6, 3751414.6, 501.8, 513.0, 2.0); (470469.8, 3751385.2, 507.1, 513.0, 2.0);
(470468.6, 3751358.9, 509.6, 509.6, 2.0); (470462.9, 3751325.6, 511.9, 511.9, 2.0);
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(470463.2, 3751227.6, 509.4, 509.4, 2.0); (470756.4, 3751290.6, 507.7, 525.0, 2.0);
(470797.7, 3751268.3, 507.7, 525.0, 2.0); (470891.2, 3751226.4, 512.0, 512.0, 2.0);
(470940.8, 3751191.8, 512.1, 512.1, 2.0); (471000.6, 3750923.6, 523.8, 523.8, 2.0);
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(471201.7, 3750930.9, 533.3, 543.0, 2.0); (471222.5, 3750931.5,
533.7, 543.0, 2.0);
(471244.1, 3750931.2, 534.8, 543.0, 2.0); (471264.4, 3750931.7,
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(471284.4, 3750931.7, 536.5, 536.5, 2.0); (471305.8, 3750931.7,
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(471400.9, 3750928.2, 535.0, 535.0, 2.0); (471421.1, 3750928.0,
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(471440.6, 3750928.1, 535.6, 535.6, 2.0); (471461.8, 3750927.4,
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541.7, 549.0, 2.0);
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(471795.9, 3751046.4, 541.1, 541.1, 2.0); (471796.7, 3751073.0,
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(471867.4, 3751144.0, 534.9, 534.9, 2.0); (471891.0, 3751144.4,
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(471963.1, 3751144.4, 525.8, 535.0, 2.0); (471984.2, 3751144.0,
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(471999.0, 3751163.4, 525.3, 536.0, 2.0); (472000.2, 3751199.1,
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(471999.8, 3751230.6, 532.9, 532.9, 2.0); (472000.4, 3751251.5,
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(472000.2, 3751281.1, 536.2, 536.2, 2.0); (472002.0, 3751347.9,
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(472036.9, 3751348.5, 536.6, 536.6, 2.0); (472063.1, 3751349.3,
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(472084.6, 3751348.3, 535.8, 535.8, 2.0); (472104.9, 3751348.7,
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(472127.3, 3751348.5, 533.0, 533.0, 2.0); (472150.8, 3751349.7,
531.4, 531.4, 2.0);
(472171.5, 3751349.5, 530.3, 530.3, 2.0); (472194.1, 3751349.1,
528.2, 531.0, 2.0);
(472222.6, 3751348.7, 525.4, 536.0, 2.0); (472247.8, 3751349.5,
523.2, 536.0, 2.0);
(472269.7, 3751349.1, 520.9, 536.0, 2.0); (472290.4, 3751350.3,
520.7, 535.0, 2.0);
(472313.6, 3751350.5, 520.9, 532.0, 2.0); (472333.8, 3751351.3,
520.6, 532.0, 2.0);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(472354.8, 3751351.3, 518.5, 532.0, 2.0); (472377.7, 3751351.1, 516.0, 532.0, 2.0);
(472401.7, 3751351.1, 513.6, 533.0, 2.0); (472425.5, 3751351.8, 511.8, 532.0, 2.0);
(472445.7, 3751350.7, 511.1, 532.0, 2.0); (472463.2, 3751350.9, 509.4, 532.0, 2.0);
(472484.1, 3751350.9, 507.3, 532.0, 2.0); (472503.9, 3751351.3, 506.3, 532.0, 2.0);
(472523.8, 3751351.3, 506.2, 531.0, 2.0); (472543.3, 3751351.3, 506.4, 506.4, 2.0);
(472563.2, 3751352.2, 506.1, 506.1, 2.0); (472582.6, 3751352.0, 505.8, 505.8, 2.0);
(472601.3, 3751352.0, 505.3, 505.3, 2.0); (472606.8, 3751367.3, 504.3, 504.3, 2.0);
(472607.6, 3751396.4, 504.2, 504.2, 2.0); (472608.5, 3751432.1, 505.0, 505.0, 2.0);
(472608.9, 3751462.6, 504.4, 504.4, 2.0); (472609.5, 3751497.1, 505.0, 505.0, 2.0);
(472610.7, 3751553.8, 505.4, 505.4, 2.0); (472666.0, 3751554.0, 501.3, 501.3, 2.0);
(472690.4, 3751553.6, 499.8, 499.8, 2.0); (472713.5, 3751554.3, 499.2, 499.2, 2.0);
(472734.6, 3751554.0, 497.9, 497.9, 2.0); (472759.5, 3751554.0, 496.2, 496.2, 2.0);
(472781.8, 3751554.5, 494.9, 499.0, 2.0); (472849.8, 3751556.1, 495.4, 495.4, 2.0);
(472871.8, 3751556.1, 494.9, 494.9, 2.0); (472895.2, 3751555.6, 494.2, 494.2, 2.0);
(472922.6, 3751555.9, 493.8, 493.8, 2.0); (473092.4, 3751802.3, 486.1, 486.1, 2.0);
(473204.8, 3751856.8, 481.6, 481.6, 2.0); (472991.2, 3752083.3, 484.1, 484.1, 2.0);
(473295.1, 3752052.5, 478.7, 478.7, 2.0); (473356.8, 3752050.3, 476.8, 476.8, 2.0);
(473495.1, 3751996.6, 476.0, 476.0, 2.0); (473486.5, 3751917.7, 475.8, 475.8, 2.0);
(473392.6, 3752058.2, 475.9, 475.9, 2.0); (473464.3, 3752082.6, 475.2, 475.2, 2.0);
(473550.3, 3752087.6, 473.0, 473.0, 2.0); (473584.7, 3752089.8, 473.0, 473.0, 2.0);
(472765.6, 3752474.1, 477.2, 495.0, 2.0); (470432.2, 3750483.9, 532.6, 532.6, 2.0);
(469244.1, 3754182.8, 471.3, 485.0, 2.0); (469596.8, 3750785.6, 493.4, 493.4, 2.0);
(470466.5, 3750530.3, 535.0, 535.0, 2.0); (469319.3, 3749244.5, 500.0, 500.0, 2.0);
(469229.6, 3749502.2, 503.4, 503.4, 2.0); (468465.4, 3749582.3, 490.5, 490.5, 2.0);
(471438.4, 3750129.8, 539.2, 539.2, 2.0); (471657.5, 3749918.8, 535.4, 535.4, 2.0);
(471732.9, 3749916.5, 534.7, 534.7, 2.0); (471710.3, 3750132.8, 537.0, 537.0, 2.0);
(471273.9, 3750119.8, 540.5, 540.5, 2.0);

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/07/22
*** AERMET - VERSION 16216 ***
*** *** 09:19:36

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
KRAL_V9_ADJU\KRAL_v9.SFC Met
Version: 16216
Profile file:
KRAL_V9_ADJU\KRAL_v9.PFL
Surface format:
FREE

Profile format:
FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name:
UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-25.6	0.266	-9.000	-9.000	-999.	330.	77.9	0.15	2.40	1.00	2.93	55.	10.1	288.1	2.0
12	01	01	1	02	-26.8	0.277	-9.000	-9.000	-999.	351.	84.7	0.15	2.40	1.00	3.05				

```
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:19:36

                     PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                VOL11       , VOL12       , VOL13       ,
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VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	0.06876	(12121824)	472482.23	3752398.04	0.07237	(12120224)
472477.97	3752183.12	0.08207	(12120224)	472148.10	3752531.53	0.10593	(12121824)
472052.12	3752531.22	0.13066	(13121924)	471975.52	3752531.22	0.14842	(13121924)
471896.06	3752530.90	0.15869	(13121924)	471840.76	3752529.94	0.16302	(13121924)
471816.60	3752527.08	0.16347	(13121924)	471736.82	3752557.91	0.15446	(13121924)
471696.59	3752558.87	0.15652	(13121924)	471627.29	3752556.22	0.16730	(13121924)
471584.60	3752556.76	0.17255	(13121924)	471560.01	3752556.22	0.17342	(13121924)
471534.35	3752554.87	0.17235	(13121924)	471514.89	3752554.87	0.17035	(13121924)
471486.79	3752555.68	0.16952	(13121924)	471465.72	3752555.41	0.16870	(13121924)
471442.21	3752554.98	0.16615	(13121924)	471419.71	3752552.46	0.16592	(13121924)
471394.22	3752552.91	0.16620	(13121924)	471363.44	3752552.46	0.16796	(13121924)
471332.68	3752553.31	0.16853	(13121924)	471307.62	3752552.94	0.16877	(13121924)
471284.05	3752552.70	0.16785	(13121924)	471261.98	3752552.70	0.16737	(13121924)
471241.90	3752552.70	0.16749	(13121924)	471223.15	3752552.86	0.16799	(13121924)
471205.90	3752552.86	0.16862	(13121924)	471173.21	3752552.37	0.16996	(13121924)
471135.70	3752552.53	0.16933	(13121924)	471093.22	3752551.54	0.16536	(13121924)
471059.37	3752551.70	0.15654	(13121924)	471020.54	3752551.20	0.14232	(13121924)
470981.05	3752563.65	0.12159	(13121924)	470980.39	3752552.20	0.12651	(13121924)
470980.06	3752535.61	0.13455	(13121924)	470979.89	3752517.19	0.14466	(13121924)
470980.06	3752499.76	0.15537	(13121924)	470980.22	3752479.85	0.16848	(13121924)
470980.39	3752459.44	0.18294	(13121924)	470980.22	3752433.22	0.19845	(13121924)
470980.06	3752404.02	0.20944	(13121924)	470927.12	3752402.69	0.15255	(13121924)
470907.87	3752402.69	0.13929	(13121924)	470887.30	3752402.69	0.12746	(13121924)
470869.71	3752402.03	0.11990	(13121924)	470849.63	3752401.86	0.11234	(13121924)
470829.39	3752402.19	0.10565	(13121924)	470811.63	3752402.19	0.10046	(13121924)
470791.55	3752402.53	0.09512	(13121924)	470773.63	3752401.86	0.09085	(13121924)

470749.24 3752402.19 0.08549 (13121924) 470727.72
3752391.74 0.08226 (13121924)
470733.04 3752338.97 0.08784 (13121924) 470733.70
3752320.55 0.08939b (16120624)
470734.20 3752291.01 0.09184b (16120624) 470733.20
3752265.78 0.09335b (16120624)
470732.87 3752218.81 0.09649b (16120624) 470732.54
3752182.14 0.09893b (16120624)
470732.37 3752145.29 0.10162b (16120624) 470692.38
3752144.80 0.09256b (16120624)
470670.14 3752144.46 0.08806b (16120624) 470651.72
3752144.30 0.08469b (16120624)
470633.46 3752144.13 0.08140b (16120624) 470615.54
3752143.97 0.07835b (16120624)
470595.95 3752143.30 0.07524b (16120624) 470577.03
3752143.47 0.07249b (16120624)
470553.63 3752143.47 0.06934b (16120624) 470528.57
3752142.64 0.06609b (16120624)
470507.99 3752142.80 0.06346b (16120624) 470485.59
3752142.47 0.06079b (16120624)
470471.60 3752131.63 0.06000 (12122024) 470471.60
3752109.21 0.06161 (12122024)
470471.32 3752085.22 0.06313 (12122024) 470471.46
3752037.68 0.06612 (12122024)
470471.74 3752013.00 0.06754 (12122024) 470470.89
3751987.18 0.06891m (13010324)
470470.89 3751965.74 0.07025m (13010324) 470470.75
3751944.44 0.07152m (13010324)

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	0.07254m	(13010324)	470470.47	3751905.93	0.07335m	(13010324)
470470.89	3751884.06	0.07463m	(13010324)	470470.61	3751864.03	0.07549m	(13010324)
470470.33	3751844.00	0.07616m	(13010324)	470470.19	3751824.53	0.07653m	(13010324)
470470.33	3751805.77	0.07700m	(13010324)	470470.33	3751788.00	0.07754	(12010124)
470470.33	3751761.19	0.07975	(12010124)	470471.03	3751741.87	0.08139	(12010124)

```
470470.05   3751722.82        0.08271  (12010124)                470470.19
3751703.36        0.08410  (12010124)
470470.19   3751683.75        0.08522  (12010124)                470470.33
3751664.28        0.08615  (12010124)
470470.33   3751642.41        0.08706  (12010124)                470470.47
3751621.82        0.08764  (12010124)
470470.19   3751599.81        0.08795  (12010124)                470470.61
3751578.79        0.08808  (12010124)
470469.62   3751555.94        0.08745  (12010124)                470470.05
3751512.49        0.08603  (12010124)
470468.64   3751414.59        0.08303  (13121524)                470469.76
3751385.25        0.08486  (13121524)
470468.65   3751358.95        0.08519  (13121524)                470462.93
3751325.56        0.08453  (13121524)
470461.98   3751310.62        0.08425  (13121524)                470462.61
3751296.63        0.08391  (13121524)
470462.61   3751283.28        0.08342  (13121524)                470462.61
3751269.92        0.08278  (13121524)
470462.93   3751254.35        0.08197  (13121524)                470461.98
3751240.67        0.08119  (13121524)
470463.25   3751227.64        0.08089  (13121524)                470756.39
3751290.59        0.11491  (13121524)
470797.72   3751268.33        0.11784  (13121524)                470891.19
3751226.38        0.12741  (13121524)
470940.78   3751191.82        0.12782  (13122424)                471000.61
3750923.63        0.08579m (15020724)
471029.26   3750923.63        0.08771  (15121524)                471056.29
3750923.90        0.09082  (15121524)
471077.91   3750924.44        0.09299  (15121524)                471097.64
3750924.44        0.09428  (15121524)
471118.18   3750924.98        0.09592  (15121524)                471138.99
3750927.42        0.09768  (15121524)
471160.07   3750928.77        0.09971  (12021624)                471181.15
3750931.47        0.10756m (15020724)
471201.69   3750930.93        0.11257m (15020724)                471222.50
3750931.47        0.11280  (15022224)
471244.13   3750931.20        0.11733  (15022224)                471264.40
3750931.74        0.12093  (15022224)
471284.40   3750931.74        0.12328  (15022224)                471305.75
3750931.74        0.12359  (15022224)
471324.67   3750930.93        0.12151  (15022224)                471343.05
3750930.12        0.11832  (15022224)
471363.86   3750929.04        0.11534  (15022224)                471381.96
3750928.77        0.11328  (15022224)
471400.88   3750928.23        0.11110  (15022224)                471421.15
3750927.96        0.10876  (15022224)
471440.59   3750928.11        0.10619  (15022224)                471461.83
3750927.45        0.10330  (15022224)
471479.76   3750927.95        0.10152  (15022224)                471499.68
3750927.62        0.09979  (15022224)
471519.26   3750928.78        0.09876  (15022224)                471537.02
3750929.61        0.10156  (15022224)
471556.77   3750930.94        0.10329  (15022224)                471580.68
3750934.09        0.10720  (15022224)
471624.00   3750940.23        0.10712  (15022224)                471795.90
3750950.11        0.09528  (13111624)
471796.29   3750967.88        0.09843  (13111624)                471796.69
3750987.22        0.10351b (16120624)
471797.47   3751006.75        0.11092b (16120624)                471796.69
3751025.30        0.11735b (16120624)
471795.90   3751046.40        0.12570b (16120624)                471796.69
3751072.96        0.13545b (16120624)
471797.47   3751143.85        0.16471b (16120624)                471833.01
3751143.85        0.15993b (16120624)
471867.38   3751144.05        0.15133b (16120624)                471891.02
3751144.44        0.14117b (16120624)
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 ,
VOL6 , VOL7 , VOL8 , VOL9 , VOL10 ,
VOL11 , VOL12 , VOL13 ,
VOL14 , VOL15 , VOL16 , VOL17 , VOL18 ,
VOL19 , VOL20 , VOL21 ,
VOL22 , VOL23 , VOL24 , VOL25 , VOL26 ,
VOL27 , VOL28 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471916.60	3751144.24	0.12380b	(16120624)	471939.45	3751144.24	0.11895b	(16120624)
471963.08	3751144.44	0.11269b	(16120624)	471984.17	3751144.05	0.10869b	(16120624)
471999.02	3751163.38	0.11135b	(16120624)	472000.19	3751199.12	0.12389b	(16120624)
471999.80	3751230.56	0.14023b	(16120624)	472000.38	3751251.46	0.14982b	(16120624)
472000.19	3751281.15	0.15899b	(16120624)	472001.95	3751347.94	0.17577b	(16120624)
472036.90	3751348.52	0.16310b	(16120624)	472063.07	3751349.31	0.15665b	(16120624)
472084.56	3751348.33	0.14993b	(16120624)	472104.87	3751348.72	0.14343b	(16120624)
472127.33	3751348.52	0.13555b	(16120624)	472150.76	3751349.70	0.12503b	(16120624)
472171.47	3751349.50	0.11969b	(16120624)	472194.12	3751349.11	0.11356b	(16120624)
472222.63	3751348.72	0.10623b	(16120624)	472247.83	3751349.50	0.09985b	(16120624)
472269.70	3751349.11	0.09417b	(16120624)	472290.40	3751350.28	0.09167b	(16120624)
472313.64	3751350.48	0.08906b	(16120624)	472333.76	3751351.26	0.08680b	(16120624)
472354.85	3751351.26	0.08229b	(16120624)	472377.70	3751351.06	0.07907b	(16120624)
472401.72	3751351.06	0.07595b	(16120624)	472425.55	3751351.84	0.07306b	(16120624)
472445.67	3751350.67	0.07109b	(16120624)	472463.24	3751350.87	0.06915b	(16120624)
472484.14	3751350.87	0.06703b	(16120624)	472503.87	3751351.26	0.06532b	(16120624)
472523.79	3751351.26	0.06381b	(16120624)	472543.32	3751351.26	0.06244b	(16120624)
472563.24	3751352.24	0.06102b	(16120624)	472582.57	3751352.04	0.05964b	(16120624)
472601.32	3751352.04	0.05834b	(16120624)	472606.79	3751367.27	0.05830b	(16120624)

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       472607.57   3751396.37        0.05913b (16120624)                472608.55
       3751432.11        0.06027b (16120624)
       472608.94   3751462.58        0.06103b (16120624)                472609.52
       3751497.15        0.06205b (16120624)
       472610.70   3751553.78        0.06349b (16120624)                472665.97
       3751553.98        0.05853b (16120624)
       472690.38   3751553.59        0.05654b (16120624)                472713.50
       3751554.27        0.05491b (16120624)
       472734.64   3751554.04        0.05335b (16120624)                472759.46
       3751554.04        0.05158b (16120624)
       472781.75   3751554.50        0.05015  (16051524)                472849.76
       3751556.11        0.04755  (16051524)
       472871.82   3751556.11        0.04664  (16051524)                472895.25
       3751555.65        0.04566  (16051524)
       472922.60   3751555.88        0.04463  (16051524)                473092.41
       3751802.31        0.04395  (12050124)
       473204.80   3751856.81        0.04085  (12050124)                472991.21
       3752083.31        0.04584  (12050124)
       473295.12   3752052.49        0.03705  (12050124)                473356.76
       3752050.34        0.03550  (12050124)
       473495.10   3751996.58        0.03339  (12050124)                473486.50
       3751917.74        0.03412  (12050124)
       473392.60   3752058.22        0.03452  (12050124)                473464.28
       3752082.59        0.03256  (12050124)
       473550.29   3752087.61        0.03072  (12050124)                473584.69
       3752089.76        0.03010  (12050124)
       472765.59   3752474.09        0.04415  (12120224)                470432.16
       3750483.93        0.05322  (12122924)
       469244.06   3754182.82        0.00996  (15030124)                469596.75
       3750785.65        0.03517  (13121524)
       470466.55   3750530.27        0.06063  (12122924)                469319.29
       3749244.53        0.01321  (13010424)
       469229.64   3749502.19        0.01610  (13010424)                468465.38
       3749582.33        0.01450  (12010424)
       471438.37   3750129.76        0.05079  (15022224)                471657.54
       3749918.78        0.03630  (15022224)
       471732.91   3749916.52        0.03361  (15022224)                471710.30
       3750132.80        0.04175  (15022224)
       471273.89   3750119.77        0.04710
       (15022224)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/07/22
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        09:19:36

                     PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                                    ** CONC OF PM_2.5   IN
                                    MICROGRAMS/M**3                          **


                                                    DATE
                                                                                NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       0.20944  ON 13121924: AT (  470980.06,  3752404.02,
506.00,   506.00,    2.00)  DC
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1638 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   1039 Calm Hours Identified

A Total of   599 Missing Hours Identified (1.37 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****