Discovery Village

MOBILE SOURCE HEALTH RISK ASSESSMENT

CITY OF MURRIETA

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FEBRUARY 7, 2023

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
MEIW	Maximally Exposed Individual Worker
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard Assessment
PM10	Particulate Matter 10 microns in diameter or less
Project	Discovery Village
REL	Reference Exposure Level
RM	Recommended Measures
SCAQMD	South Coast Air Quality Management District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TA	Traffic Analysis
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

This report evaluates the potential health risk impacts to sensitive receptors (which are residents) and adjacent workers associated with the development of the Project, more specifically, health risk impacts as a result of exposure to Toxic Air Contaminants (TACs) including diesel particulate matter (DPM) as a result of heavy-duty diesel trucks accessing the Innovation portion of the Project if it were to be developed with light manufacturing uses which is allowed under the Innovation designation. This section summarizes the significance criteria and Project health risks.

The results of the health risk assessment from Project-generated DPM emissions are provided in Table ES-1 and ES-2 below for the Project.

CONSTRUCTION IMPACTS

Health risks associated with construction of the proposed Project have been evaluated in a separate memo. The results of the analysis indicate that diesel particulate matter emitted during construction of the proposed Project would result in a less than significant impact for nearby sensitive receptors and workers It is expected that construction health risk would be identical under all project scenarios.

OPERATIONAL IMPACTS

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R12 which is located approximately 1,592 feet south of the Project site at an existing residence located at 28460 Kara Street. R12 is placed in the private outdoor living areas (backyard) facing the Project site. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 0.54 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site and primary truck route than the MEIR analyzed herein, and TACs generally dissipate with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The modeled receptors are illustrated on Exhibit 2-C.

Worker Exposure Scenario[1]*:*

1 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

The worker receptor land use with the greatest potential exposure to Project operational-source DPM emissions is Location R11, which represents the potential worker receptor located approximately 42 feet west of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 0.11 in one million, which is less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The modeled receptors are illustrated on Exhibit 2-C.

School Child Exposure Scenario:

The nearest school is Vista Murrieta High School, located approximately 4,100 feet south of the Project site. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact attributable to the Project is calculated to be 0.04 in one million, which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be <0.01, which would not exceed the applicable significance threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to nearby school children.

CONSTRUCTION AND OPERATIONAL IMPACTS

The land use with the greatest potential exposure to Project construction-source and operational-source DPM emissions is Location R10, which is located approximately 122 feet north of the Project site at an existing residence located at 28327 Cottage Way. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source and operational-source DPM emissions is estimated at 8.71 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-C.

TABLE ES-1: SUMMARY OF OPERATIONAL CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	0.54	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.11	10	NO
9 Year Exposure	Maximum Exposed Individual School Child	0.04	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	≤0.01	1.0	NO
Annual Average	Maximum Exposed Individual School Child	≤0.01	1.0	NO

TABLE ES-2: SUMMARY OF CONSTRUCTION AND OPERATIONAL CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	8.71	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO

1 INTRODUCTION

The South Coast Air Quality Management District (SCAQMD) typically issues a comment letter on the Notice of Preparation of a CEQA Document. Per the SCAQMD's typical comment letter, if a proposed Project is expected to generate/attract diesel trucks, which emit diesel particulate matter (DPM) or other Toxic Air Contaminants (TACs), preparation of a HRA is necessary. This document serves to meet the SCAQMD's request for preparation of a HRA. This HRA has been prepared in accordance with the document Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1) and is comprised of all relevant and appropriate procedures presented by the United States Environmental Protection Agency (U.S. EPA), California EPA and SCAQMD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to TAC exposure from a project such as the proposed Project. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulatively considerable impact.

The AQMD 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* (2). In this report the AQMD 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 toxic air contaminant (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."

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). A REL is a concentration at or below which health effects are not likely to occur. A hazard index less of than one (1.0) means that adverse health effects are not expected. In this HRA, non-carcinogenic exposures of less than 1.0 are considered less-than-significant. Both the cancer risk and non-carcinogenic risk thresholds are applied to the nearest sensitive receptors below.

1.1 SITE LOCATION

This report presents the results of the health risk assessment (HRA) for the proposed Discovery Village ("Project"), which is located east of Interstate 215 (I-215), at the southwest corner of Whitewood Road and Baxter Road in the City of Murrieta. The Project's location in relation to the surrounding area is shown on Exhibit 1-A.

1.2 PROJECT DESCRIPTION

The Project involves consideration of a large lot Tentative Tract Map (TTM) No. 38228 (eight individual parcels) (refer to Exhibit 1-B), and associated grading and infrastructure installation to facilitate future development of the Project site compliant with current General Plan and zoning designations. A portion of the Project site would be preserved as open space. For purposes of analysis, and based on existing General Plan and zoning designations, it is anticipated that future development at the Project site could also include: light manufacturing uses and commercial uses on Lot 1 through Lot 3 (18.8 gross acres/16.53 net acres), instead of or in addition to business park uses, consistent with the "Innovation" land use designation; and multifamily (low-rise) housing units (condo) and single family detached residential dwelling units on Lot 4 through Lot 8 (28.55 net acres), consistent with the existing General Plan land use designation and zoning (MF-2, Multi-Family Residential). Because light manufacturing uses generally entail more truck trips, this analysis assumes that future development associated with the Project would consist of 199 multifamily (low-rise) housing units (condo), 237 single family detached residential dwelling units, 267,000 square feet (sf) of light manufacturing use, and 5,000 sf of commercial use. The Project would also involve site-adjacent roadway improvements. It is anticipated that the Project would be developed in a single phase with an anticipated Opening Year of 2027. The proposed Project is anticipated to generate 5,056 trips per day (4,932 passenger car trips per day and 124 truck trips per day).

EXHIBIT 1-A: LOCATION MAP

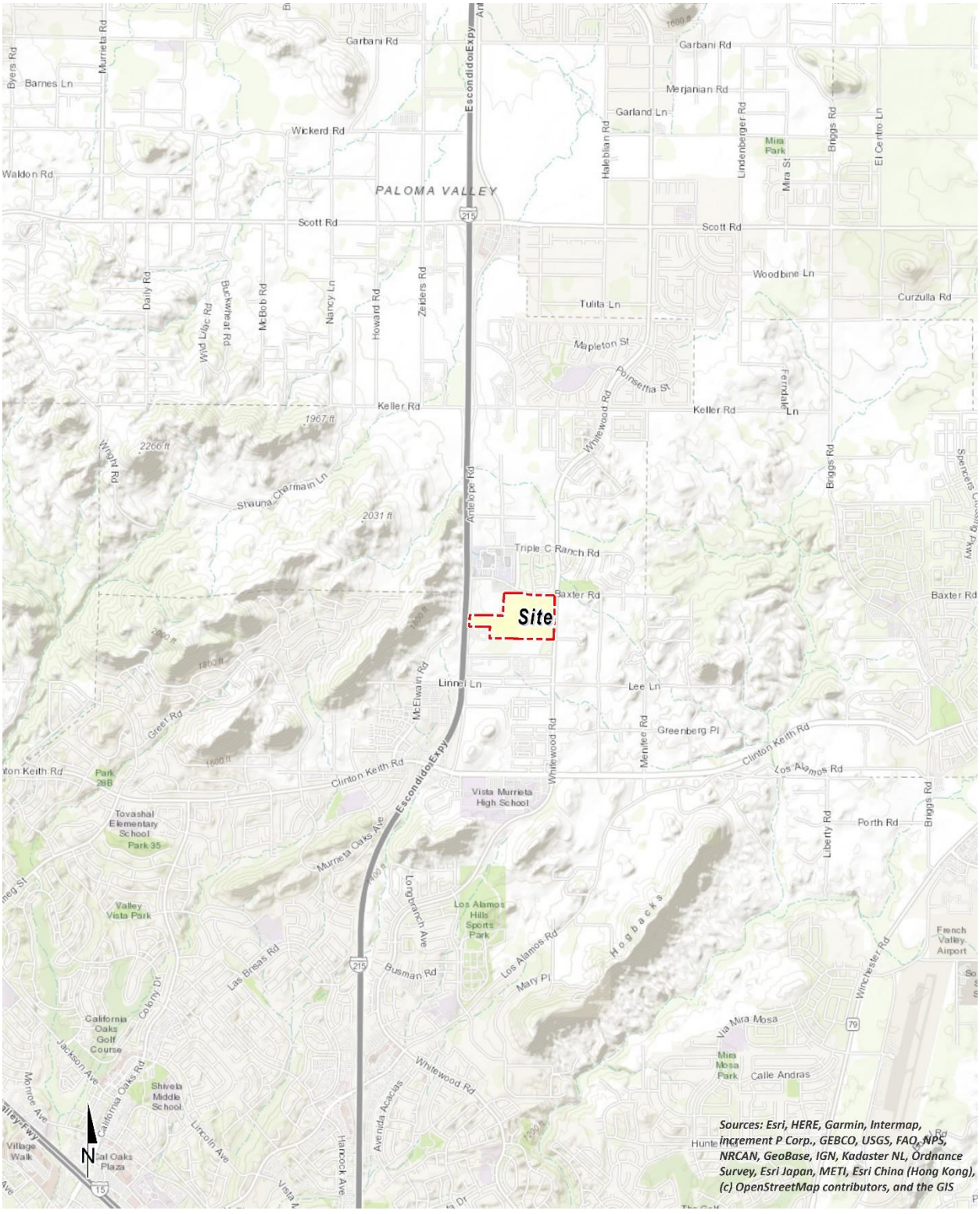
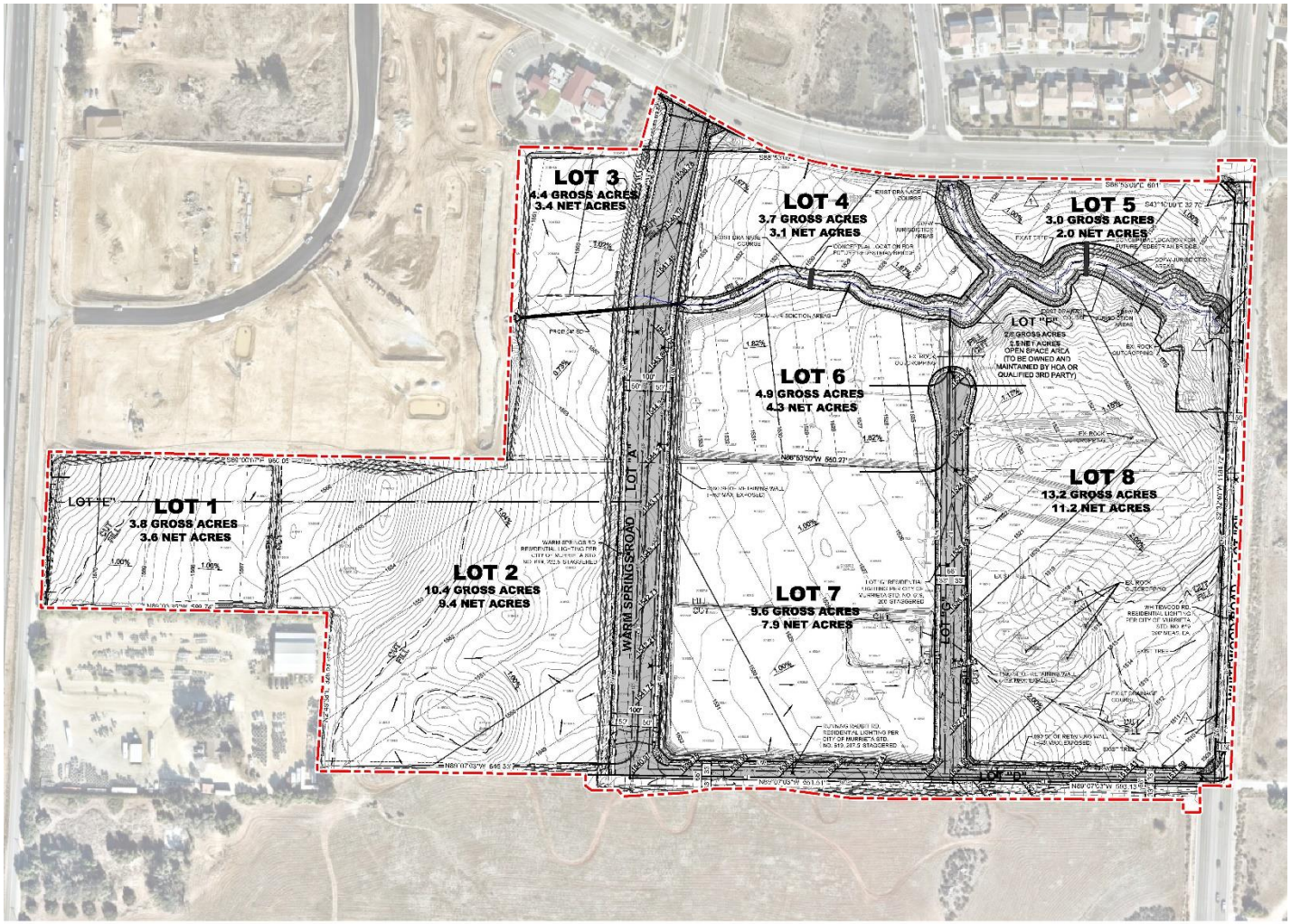


EXHIBIT 1-B: SITE PLAN



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2 BACKGROUND

2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

This HRA is based on applicable guidelines to produce conservative estimates of human health risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per $\mu g/m^3$ is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95th percentile URF represents a very conservative (health-protective) risk posed by DPM because it represents breathing rates that are high for the human body (95% higher than the average population).
- The emissions derived assume that every truck accessing the Project site will idle for 15 minutes under the unmitigated scenario, and this is an overestimation of actual idling times and thus conservative.[2] The California Air Resources Board (CARB's) anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

2.2 OPERATIONAL HEALTH RISK ASSESSMENT

The emissions calculations for the operational HRA component are based on the truck activity associated with the business park component as presented in the *Discovery Village Air Quality Impact Analysis* ("technical study") prepared by Urban Crossroads, Inc. (3)

2.2.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were calculated using emission factors for particulate matter 10µm in diameter or less (PM_{10}) generated with the 2021 version of the EMission FACtor model (EMFAC) developed by the CARB. EMFAC 2021 is a mathematical model that CARB developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (4). The most recent version of this model, EMFAC 2021, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2021. Emission factors calculated using EMFAC 2021 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

[2] Although the Project is required to comply with ARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, in person, with Jillian Wong, December 22, 2016), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

For this Project, annual average PM_{10} emission factors were generated by running EMFAC 2021 in EMFAC Mode for vehicles in the Riverside County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

Calculated emission factors are shown at Table 2-1. As a conservative measure, a 2027 EMFAC 2021 run was conducted and a static 2027 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2027 emission factors would overstate potential impacts since this approach assumes that emission factors remain "static" and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2027. Additionally, based on EMFAC 2021, Light-Heavy-Duty Trucks are comprised of 59.8% diesel, Medium-Heavy-Duty Trucks are comprised of 92.1% diesel, and Heavy-Heavy-Duty Trucks are comprised of 94.9% diesel. Trucks fueled by diesel are accounted for by these percentages accordingly in the emissions factor generation. Appendix 2.1 includes additional details on the emissions estimates from EMFAC.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (5):

$Emissions_{speedA}$ (g/s) = $EF_{RunExhaust}$ (g/VMT) * Distance (VMT/trip) * Number of Trips (trips/day) / seconds per day

Where:

$Emissions_{speedA}$ (g/s): Vehicle emissions at a given speed A;

$EF_{RunExhaust}$ (g/VMT): EMFAC running exhaust PM_{10} emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM_{10} emission factor (g/idle-hr) from EMFAC and the total truck trip over the total assumed idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (5):

$Emissions_{idle}$ (g/s) = EF_{idle} (g/hr) * Number of Trips (trips/day) * Idling Time (min/trip) *

60 minutes per hour / seconds per day

Where:

$Emissions_{idle}$ (g/s): Vehicle emissions during idling;

EF_{idle}(g/s): EMFAC idle exhaust PM_{10} emission factor.

TABLE 2-1: 2027 WEIGHTED AVERAGE DPM EMISSIONS FACTORS

Speed	Weighted Average
0 (idling)	0.08748 (g/idle-hr)
5	0.01965 (g/s)
25	0.00854 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix 2.2. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-2. The modeled emission sources are illustrated on Exhibit 2-A for on-site sources and Exhibit 2-B for off-site sources. The modeling domain is limited to the Project's primary truck route and includes off-site sources in the study area for more than ¾ mile. This modeling domain is more inclusive and conservative than using only a ¼ mile modeling domain which is the distance supported by several reputable studies which conclude that the greatest potential risks occur within a ¼ mile of the primary source of emissions (6) (in the case of the Project, the primary source of emissions is the on-site idling and on-site travel).

EXHIBIT 2-A: MODELED ON-SITE EMISSION SOURCES

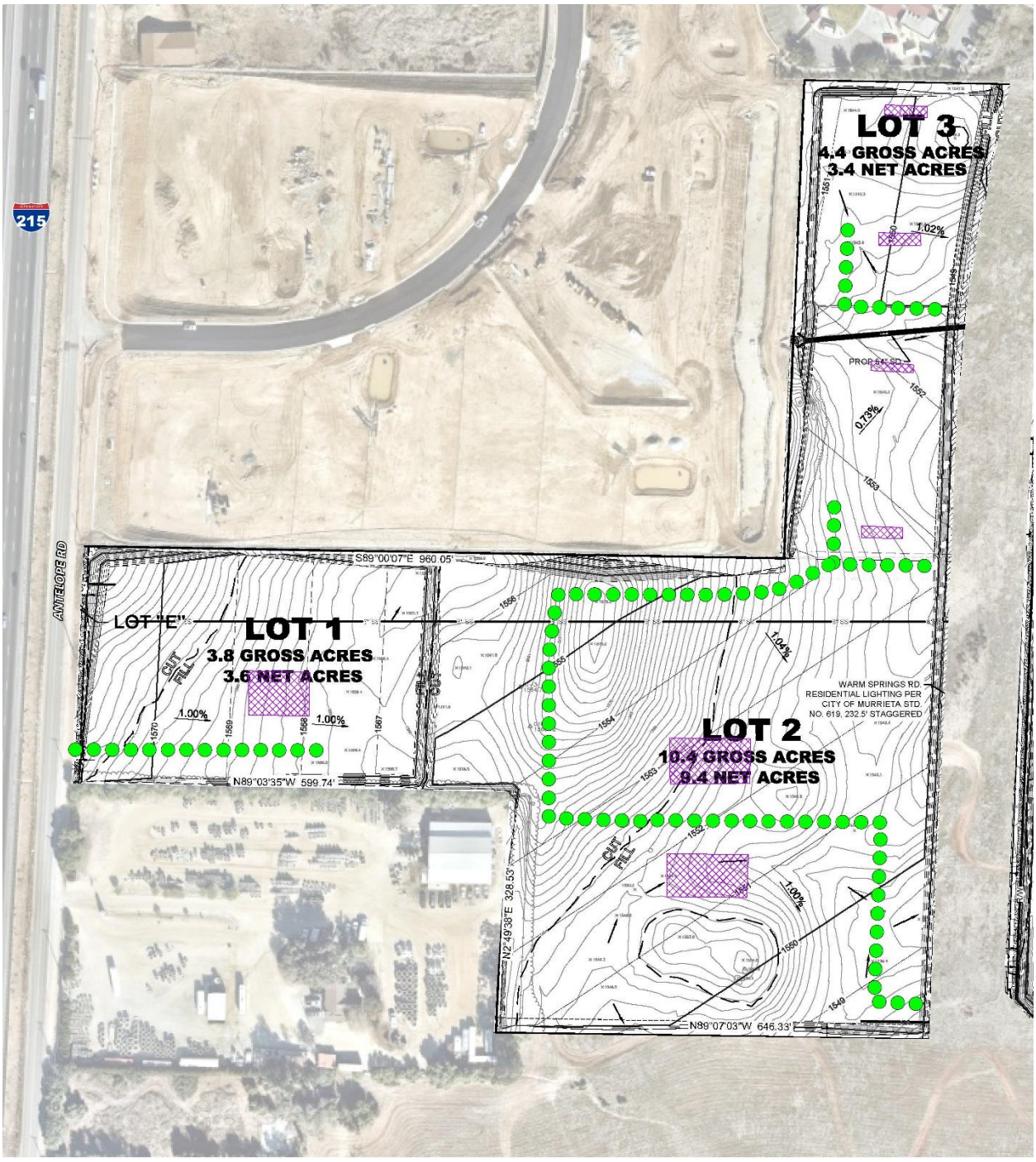


EXHIBIT 2-B: MODELED OFF-SITE EMISSION SOURCES

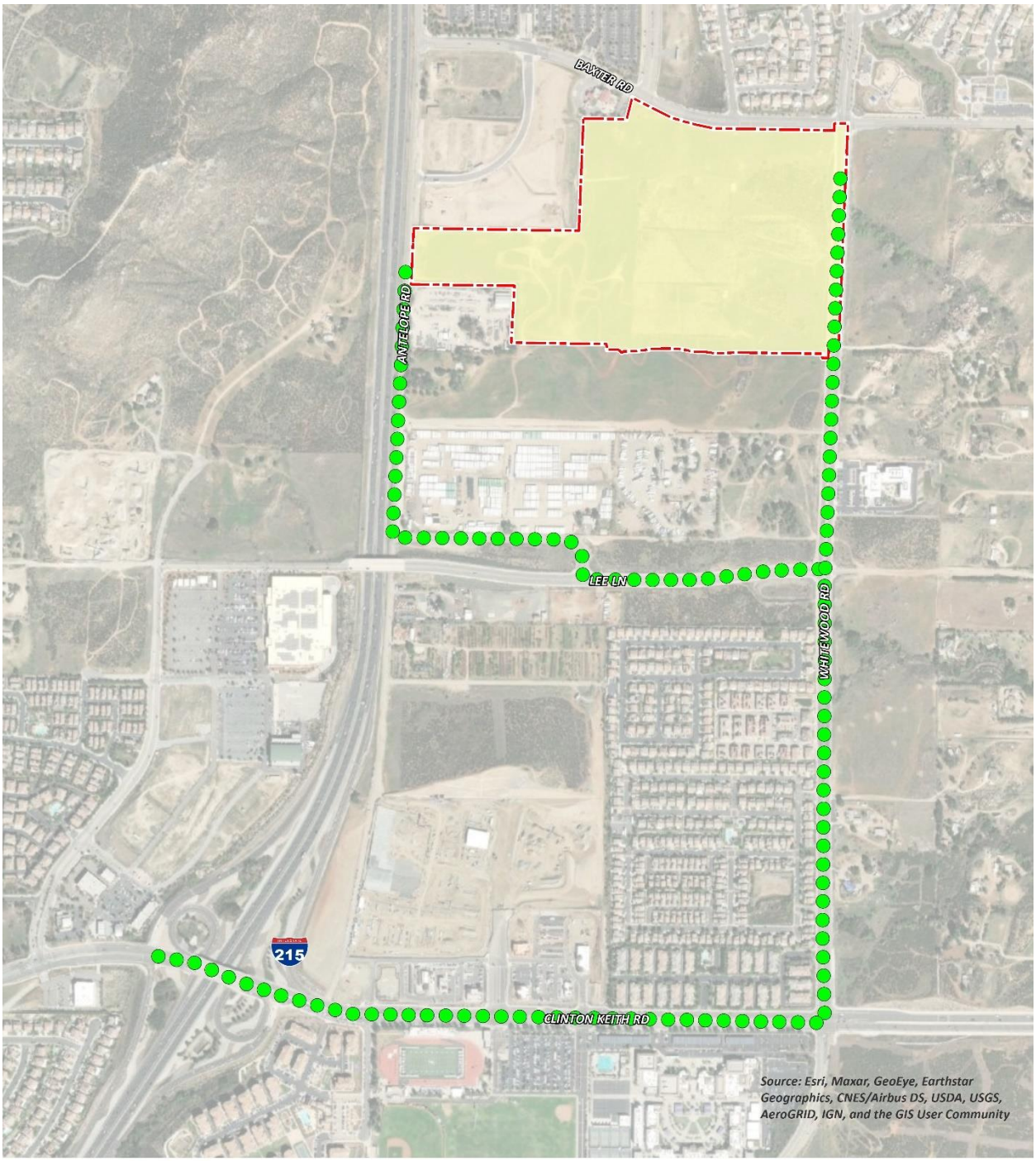


TABLE 2-2: DPM EMISSIONS FROM PROJECT TRUCKS (2027 ANALYSIS YEAR)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling - Bldg 1A/1B	14			0.0875	0.30	3.443E-06
On-Site Idling - Bldg 2A/2B	19			0.0875	0.42	4.840E-06
On-Site Idling - Bldg 2C/2D	19			0.0875	0.41	4.704E-06
On-Site Idling - Bldg 3A/3B	5			0.0875	0.12	1.366E-06
On-Site Idling - Bldg 4A/4B	5			0.0875	0.12	1.342E-06
On-Site Travel - Bldg 1A/1B	27	1.77	0.0197		0.03	4.033E-07
On-Site Travel - Bldg 2A/2B	38	8.41	0.0197		0.17	1.914E-06
On-Site Travel - Bldg 2C/2D	37	4.22	0.0197		0.08	9.592E-07
On-Site Travel - Bldg 3A/3B	11	0.47	0.0197		0.01	1.079E-07
On-Site Travel - Bldg 4A/4B	11	0.54	0.0197		0.01	1.235E-07
Off-Site Travel - Antelope Road 22% Inbound/Outbound	27	14.35	0.0085		0.12	1.418E-06
Off-Site Travel - Linnel Lane 22% Inbound/Outbound	27	7.11	0.0085		0.06	7.030E-07
Off-Site Travel - Warm Springs Road 9% Inbound/Outbound	11	0.71	0.0085		0.01	7.027E-08
Off-Site Travel - Warm Springs Road 17% Inbound/Outbound	21	2.48	0.0085		0.02	2.451E-07
Off-Site Travel - Running Rabbit Road 78% Inbound/Outbound	97	22.60	0.0085		0.19	2.234E-06
Off-Site Travel - Whitew ood Road 78% Inbound/Outbound	97	23.81	0.0085		0.20	2.353E-06
Off-Site Travel - Whitew ood Road 100% Inbound/Outbound	124	155.73	0.0085		1.33	1.539E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

On-site truck idling was estimated to occur as trucks enter and travel through the Project site. Although the Project's diesel-fueled truck and equipment operators will be required by State law to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions be calculated assuming 15 minutes of truck idling (7), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis calculates truck idling at 15 minutes, consistent with SCAQMD's recommendation.

As summarized in the *Discovery Village Supplemental Trip Generation and VMT Letter* prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 5,056 trips per day (4,932 passenger car trips per day and 124 truck trips per day) (8).

2.3 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1). The Environmental Protection Agency's (U.S. EPA's) AERMOD model has been utilized. For purposes of this analysis, the Lakes AERMOD View (Version 11.2.0) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View was utilized to incorporate the U.S. EPA's latest AERMOD Version 22112 (9).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

Model parameters are presented in Table 2-3 (10). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Lake Elsinore monitoring station was used to represent local weather conditions and prevailing winds (11).

TABLE 2-3: AERMOD MODEL PARAMETERS

Dispersion Coefficient (Urban/Rural)	Urban (population 2,189,641)
Terrain (Flat/Elevated)	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the Project site boundaries, each volume source location, and receptor locations in the Project vicinity. The AERMOD dispersion model summary output files for the Project are presented in Appendix 2.2. Modeled sensitive receptors were placed at residential and non-residential locations.

Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of the properties containing these uses because the human receptors (residents and workers) spend a majority of their time at the residence or in the workplace's building, and not on the property line. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residents, schoolchildren, and workers over a period of 30, 9, or 25 years of exposure, respectively. Notwithstanding, as a conservative measure, receptors were placed at either the outdoor living area or the building façade, whichever is closer to the Project site.

For purposes of this HRA, receptors include residential, school, and non-residential (worker) land uses in the vicinity of the Project. These receptors are included in the HRA since residents and workers may be exposed at these locations over a long-term duration of 30, 9, and 25 years, respectively. This methodology is consistent with SCAQMD and OEHHA recommended guidance.

Any impacts to residents or workers located further away from the Project site than the modeled residential and workers would have a lesser impact than what has already been disclosed in the HRA at the MEIR, MEISC, and MEIW because concentrations dissipate with distance.

All receptors were set to existing elevation height so that only ground-level concentrations are analyzed. United States Geological Survey (USGS) Digital Elevation Model (DEM) terrain data based on a 7.5-minute topographic quadrangle map series using AERMAP was utilized in the HRA modeling to set elevations (12).

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-4 through 2-6 summarize the Exposure Parameters for Residents, Workers, and School Children based on 2015 OEHHA Guidelines. Appendix 2.3 includes the detailed risk calculation.

TABLE 2-4: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1,090	10	2	0.85	350	24
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

TABLE 2-5: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year) [a]	Exposure Time (hours/day)
4 to 13	631	3	9	180	12

[a] To represent the unique characteristics of the school-based population, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). RME's are defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. As a result, lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for nine (9) years. The 9 year exposure duration is also consistent with OEHHA Recommendations and consistent with the exposure duration utilized in school-based risk assessments for various schools within the Los Angeles County Unified School District (LAUSD) that have been accepted by the SCAQMD.

2.4 CARCINOGENIC CHEMICAL RISK

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time.

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)-1 to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

$$DOSEair = (Cair \times [BR/BW] \times A \times EF) \times (1 \times 10^{-6})$$

Where:

DOSEair = chronic daily intake (mg/kg/day)

Cair = concentration of contaminant in air (ug/m3)

[BR/BW] = daily breathing rate normalized to body weight (L/kg BW-day)

A = inhalation absorption factor

EF = exposure frequency (days/365 days)

BW = body weight (kg)

1 x 10 -6 = conversion factors (ug to mg, L to m3)

RISKair = DOSEair x CPF x ED/AT

Where:

DOSEair = chronic daily intake (mg/kg/day)

CPF = cancer potency factor

ED = number of years within particular age group

AT = averaging time

2.5 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 $\mu g/m^3$ (13).

The non-cancer hazard index was calculated as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$HI_{DPM} = C_{DPM}/REL_{DPM}$$

Where:

HI_{DPM} = Hazard Index; an expression of the potential for non-cancer health effects.

C_{DPM} = Annual average DPM concentration ($\mu g/m^3$).

REL_{DPM} = Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

2.6 POTENTIAL PROJECT DPM-SOURCE CANCER AND NON-CANCER RISKS

CONSTRUCTION IMPACTS

Health risks associated with construction of the proposed Project have been evaluated in a separate memo. The results of the analysis indicate that diesel particulate matter emitted during construction of the proposed Project would result in a less than significant impact for nearby sensitive receptors and workers It is expected that construction health risk would be identical under all project scenarios.

OPERATIONAL IMPACTS

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R12 which is located approximately 1,592 feet south of the Project site at an existing residence located at 28460 Kara Street. R12 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 0.54 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site and primary truck route than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The modeled receptors are illustrated on Exhibit 2-C.

Worker Exposure Scenario[3]*:*

The worker receptor land use with the greatest potential exposure to Project operational-source DPM emissions is Location R11, which represents the potential worker receptor located approximately 42 feet west of the Project site. At the MEIW, the maximum incremental cancer risk impact is 0.11 in one million, which is less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the

3 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

Project will not cause a significant human health or cancer risk to adjacent workers. The modeled receptors are illustrated on Exhibit 2-C.

School Child Exposure Scenario:

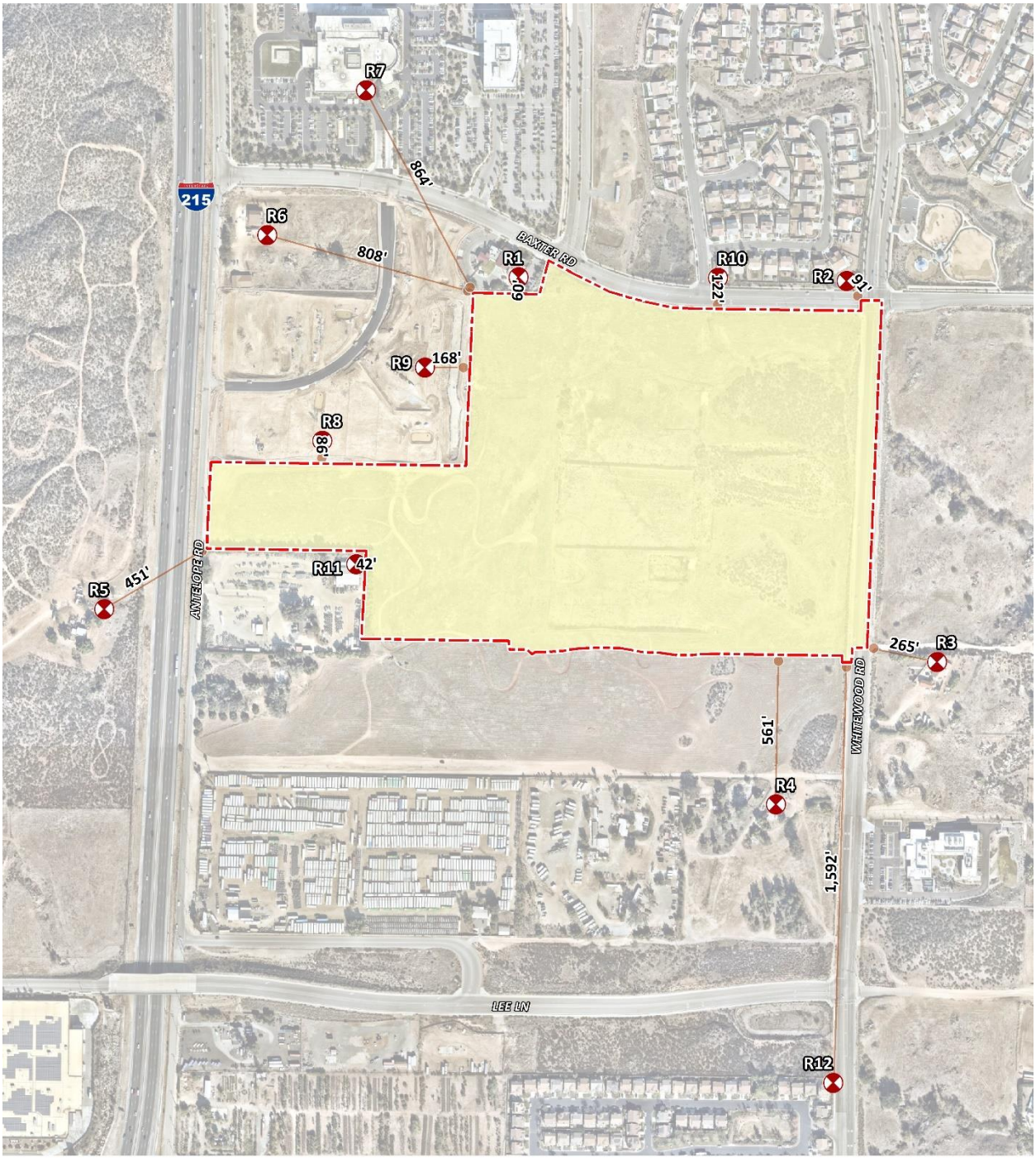
The nearest school is Vista Murrieta High School, located approximately 4,100 feet south of the Project site. At the MEISC, the maximum incremental cancer risk impact attributable to the Project is calculated to be 0.04 in one million, which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be <0.01, which would not exceed the applicable significance threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to nearby school children.

CONSTRUCTION AND OPERATIONAL IMPACTS

The land use with the greatest potential exposure to Project construction-source and operational-source DPM emissions is Location R10, which is located approximately 122 feet north of the Project site at an existing residence located at 28327 Cottage Way. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source and operational-source DPM emissions is estimated at 8.71 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-C.

It should be noted that the receptors presented in Exhibit 2-C do not represent all modeled receptors.

EXHIBIT 2-C: RECEPTOR LOCATIONS



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3 REFERENCES

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4 CERTIFICATIONS

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Discovery Village Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me at (949) 660-1994.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June 2013
Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 2.1:

EMFAC EMISSIONS SUMMARY

AVERAGE EMISSION FACTOR
RIVERSIDE COUNTY 2027

Speed	LHD1	LHD2	MHD	HHD
0	0.361914	0.585047	0.035313	0.01154
5	0.040744	0.060852	0.021792	0.01152
25	0.019137	0.029672	0.00591	0.00569

Speed	**Weighted Average Emissions**
0	**0.08748**
5	**0.01965**
25	**0.00854**

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling - Bldg 1A/1B	14			0.0875	0.30	3.443E-06
On-Site Idling - Bldg 2A/2B	19			0.0875	0.42	4.840E-06
On-Site Idling - Bldg 2C/2D	19			0.0875	0.41	4.704E-06
On-Site Idling - Bldg 3A/3B	5			0.0875	0.12	1.366E-06
On-Site Idling - Bldg 4A/4B	5			0.0875	0.12	1.342E-06
On-Site Travel - Bldg 1A/1B	27	1.77	0.0197		0.03	4.033E-07
On-Site Travel - Bldg 2A/2B	38	8.41	0.0197		0.17	1.914E-06
On-Site Travel - Bldg 2C/2D	37	4.22	0.0197		0.08	9.592E-07
On-Site Travel - Bldg 3A/3B	11	0.47	0.0197		0.01	1.079E-07
On-Site Travel - Bldg 4A/4B	11	0.54	0.0197		0.01	1.235E-07
Off-Site Travel - Antelope Road 22% Inbound/Outbound	27	14.35	0.0085		0.12	1.418E-06
Off-Site Travel - Linnel Lane 22% Inbound/Outbound	27	7.11	0.0085		0.06	7.030E-07
Off-Site Travel - Warm Springs Road 9% Inbound/Outbound	11	0.71	0.0085		0.01	7.027E-08
Off-Site Travel - Warm Springs Road 17% Inbound/Outbound	21	2.48	0.0085		0.02	2.451E-07
Off-Site Travel - Running Rabbit Road 78% Inbound/Outbound	97	22.60	0.0085		0.19	2.234E-06
Off-Site Travel - Whitewood Road 78% Inbound/Outbound	97	23.81	0.0085		0.20	2.353E-06
Off-Site Travel - Whitewood Road 100% Inbound/Outbound	124	155.73	0.0085		1.33	1.539E-05

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatu	relative_hu	process	speed_tim	pollutant	emission_rate
2027	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.012147
2027	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.006001
2027	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.01216
2027	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.088669
2027	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.041647
2027	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.787613
2027	Annual	Riverside (	LHDT2	Dsl	60	70	RUNEX	5	PM10	0.082516
2027	Annual	Riverside (	LHDT2	Dsl	60	70	RUNEX	25	PM10	0.040236
2027	Annual	Riverside (	LHDT2	Dsl			IDLEX		PM10	0.79333
2027	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.023664
2027	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.006417
2027	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.038346

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2027
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar `	Vehicle Ca	Model Yea	Speed	Fuel	Population
Riverside (	2027	HHDT	Aggregate	Aggregate	Gasoline	4.41759
Riverside (	2027	HHDT	Aggregate	Aggregate	Diesel	16021.1
Riverside (	2027	HHDT	Aggregate	Aggregate	Natural Ga	859.737
Riverside (	2027	LHDT1	Aggregate	Aggregate	Gasoline	17212.1
Riverside (	2027	LHDT1	Aggregate	Aggregate	Diesel	14633.1
Riverside (	2027	LHDT2	Aggregate	Aggregate	Gasoline	2393.26
Riverside (	2027	LHDT2	Aggregate	Aggregate	Diesel	6722.42
Riverside (	2027	MHDT	Aggregate	Aggregate	Gasoline	1187.04
Riverside (	2027	MHDT	Aggregate	Aggregate	Diesel	13823.9
Riverside (	2027	MHDT	Aggregate	Aggregate	Natural Ga	191.186

HHDT% GAS/NG	0.05118
HHDT% DSL	0.94882
LHDT1% GAS	0.54049
LHDT1% DSL	0.45951
LHDT2% GAS	0.26254
LHDT2% DSL	0.73746
MHDT% GAS	0.07908
MHDT% DSL	0.92092

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APPENDIX 2.2:

AERMOD MODEL INPUT/OUTPUT

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 1/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery Village\14073 Ops\14073 Ops.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery Village\14073 O
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14073 Ops.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC 1A1B Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.443E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484218.775, 3718921.277, 477.22, 3.49, 4.00
** 484244.954, 3718921.277, 476.16, 3.49, 4.00
** ------------------------------------------------------------------------
   LOCATION L0000493     VOLUME   484223.070 3718921.277 476.58
   LOCATION L0000494     VOLUME   484231.660 3718921.277 476.30
   LOCATION L0000495     VOLUME   484240.250 3718921.277 476.01
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC 2A2B Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.84E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484395.648, 3718894.487, 470.38, 3.49, 4.00
** 484429.494, 3718894.088, 469.13, 3.49, 4.00
```

```
** ----------------------------------------------------------------------
   LOCATION L0000496     VOLUME   484399.943 3718894.436 469.82
   LOCATION L0000497     VOLUME   484408.532 3718894.335 469.47
   LOCATION L0000498     VOLUME   484417.121 3718894.234 469.12
   LOCATION L0000499     VOLUME   484425.711 3718894.133 469.00
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC 2C2D Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.704E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484394.652, 3718846.903, 469.02, 3.49, 4.00
** 484428.498, 3718846.505, 469.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000500     VOLUME   484398.947 3718846.853 469.00
   LOCATION L0000501     VOLUME   484407.536 3718846.752 469.00
   LOCATION L0000502     VOLUME   484416.126 3718846.650 469.00
   LOCATION L0000503     VOLUME   484424.715 3718846.549 469.00
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC 3A3B Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.366E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484484.244, 3718983.282, 467.84, 3.49, 4.00
** 484485.041, 3719000.803, 467.90, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000504     VOLUME   484484.440 3718987.573 467.79
   LOCATION L0000505     VOLUME   484484.830 3718996.154 467.67
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC 4A4B Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.342E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484491.014, 3719105.725, 464.67, 3.49, 4.00
** 484491.810, 3719123.245, 464.76, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000506     VOLUME   484491.209 3719110.015 464.50
   LOCATION L0000507     VOLUME   484491.599 3719118.597 464.70
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC 1A1B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
```

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** Emission Rate = 4.033E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484151.434, 3718897.591, 480.86, 3.49, 4.00
** 484256.373, 3718897.591, 475.05, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000508     VOLUME   484155.729 3718897.591 480.34
   LOCATION L0000509     VOLUME   484164.319 3718897.591 479.77
   LOCATION L0000510     VOLUME   484172.909 3718897.591 479.19
   LOCATION L0000511     VOLUME   484181.499 3718897.591 478.59
   LOCATION L0000512     VOLUME   484190.089 3718897.591 477.81
   LOCATION L0000513     VOLUME   484198.679 3718897.591 477.03
   LOCATION L0000514     VOLUME   484207.269 3718897.591 476.25
   LOCATION L0000515     VOLUME   484215.859 3718897.591 475.81
   LOCATION L0000516     VOLUME   484224.449 3718897.591 475.52
   LOCATION L0000517     VOLUME   484233.039 3718897.591 475.23
   LOCATION L0000518     VOLUME   484241.629 3718897.591 474.98
   LOCATION L0000519     VOLUME   484250.219 3718897.591 474.90
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC 2A2B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.914E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 8
** 484509.032, 3718977.103, 467.74, 3.49, 4.00
** 484459.749, 3718976.779, 468.91, 3.49, 4.00
** 484451.319, 3718972.240, 469.03, 3.49, 4.00
** 484441.268, 3718966.079, 469.22, 3.49, 4.00
** 484426.353, 3718964.782, 470.97, 3.49, 4.00
** 484345.943, 3718965.755, 475.92, 3.49, 4.00
** 484343.998, 3718870.431, 471.61, 3.49, 4.00
** 484436.728, 3718869.458, 469.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000520     VOLUME   484504.737 3718977.075 467.39
   LOCATION L0000521     VOLUME   484496.147 3718977.019 467.60
   LOCATION L0000522     VOLUME   484487.558 3718976.962 467.82
   LOCATION L0000523     VOLUME   484478.968 3718976.905 468.04
   LOCATION L0000524     VOLUME   484470.378 3718976.849 468.32
   LOCATION L0000525     VOLUME   484461.788 3718976.792 468.61
   LOCATION L0000526     VOLUME   484453.981 3718973.673 468.87
   LOCATION L0000527     VOLUME   484446.573 3718969.331 469.24
   LOCATION L0000528     VOLUME   484438.909 3718965.874 469.74
   LOCATION L0000529     VOLUME   484430.351 3718965.130 470.29
   LOCATION L0000530     VOLUME   484421.777 3718964.838 470.85
   LOCATION L0000531     VOLUME   484413.187 3718964.942 472.10
   LOCATION L0000532     VOLUME   484404.598 3718965.046 473.52
   LOCATION L0000533     VOLUME   484396.009 3718965.150 474.95
   LOCATION L0000534     VOLUME   484387.419 3718965.253 475.95
   LOCATION L0000535     VOLUME   484378.830 3718965.357 475.97
   LOCATION L0000536     VOLUME   484370.241 3718965.461 475.98
   LOCATION L0000537     VOLUME   484361.651 3718965.565 475.98
   LOCATION L0000538     VOLUME   484353.062 3718965.669 475.99
   LOCATION L0000539     VOLUME   484345.913 3718964.284 475.94
   LOCATION L0000540     VOLUME   484345.738 3718955.696 475.66
   LOCATION L0000541     VOLUME   484345.563 3718947.108 475.37
   LOCATION L0000542     VOLUME   484345.388 3718938.520 475.08
   LOCATION L0000543     VOLUME   484345.212 3718929.932 474.70
   LOCATION L0000544     VOLUME   484345.037 3718921.343 474.27
   LOCATION L0000545     VOLUME   484344.862 3718912.755 473.84
```

```
   LOCATION L0000546     VOLUME   484344.686 3718904.167 473.39
   LOCATION L0000547     VOLUME   484344.511 3718895.579 472.82
   LOCATION L0000548     VOLUME   484344.336 3718886.991 472.26
   LOCATION L0000549     VOLUME   484344.161 3718878.402 471.69
   LOCATION L0000550     VOLUME   484344.615 3718870.425 471.33
   LOCATION L0000551     VOLUME   484353.204 3718870.334 471.04
   LOCATION L0000552     VOLUME   484361.794 3718870.244 470.70
   LOCATION L0000553     VOLUME   484370.384 3718870.154 470.18
   LOCATION L0000554     VOLUME   484378.973 3718870.064 469.66
   LOCATION L0000555     VOLUME   484387.563 3718869.974 469.15
   LOCATION L0000556     VOLUME   484396.152 3718869.884 469.00
   LOCATION L0000557     VOLUME   484404.742 3718869.794 469.00
   LOCATION L0000558     VOLUME   484413.331 3718869.704 469.00
   LOCATION L0000559     VOLUME   484421.921 3718869.614 469.00
   LOCATION L0000560     VOLUME   484430.510 3718869.524 469.00
** End of LINE VOLUME Source ID = SLINE7
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC 2C2D Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.592E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 484396.600, 3718870.414, 469.08, 3.49, 4.00
** 484484.468, 3718869.441, 469.00, 3.49, 4.00
** 484482.199, 3718795.515, 469.00, 3.49, 4.00
** 484502.950, 3718794.867, 469.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000561     VOLUME   484400.894 3718870.367 469.00
   LOCATION L0000562     VOLUME   484409.484 3718870.272 469.00
   LOCATION L0000563     VOLUME   484418.073 3718870.176 469.00
   LOCATION L0000564     VOLUME   484426.663 3718870.081 469.00
   LOCATION L0000565     VOLUME   484435.252 3718869.986 469.00
   LOCATION L0000566     VOLUME   484443.842 3718869.891 469.00
   LOCATION L0000567     VOLUME   484452.431 3718869.796 469.00
   LOCATION L0000568     VOLUME   484461.021 3718869.701 469.00
   LOCATION L0000569     VOLUME   484469.610 3718869.606 469.00
   LOCATION L0000570     VOLUME   484478.200 3718869.511 469.00
   LOCATION L0000571     VOLUME   484484.397 3718867.122 469.00
   LOCATION L0000572     VOLUME   484484.133 3718858.536 469.00
   LOCATION L0000573     VOLUME   484483.870 3718849.950 469.00
   LOCATION L0000574     VOLUME   484483.606 3718841.364 468.98
   LOCATION L0000575     VOLUME   484483.343 3718832.778 468.95
   LOCATION L0000576     VOLUME   484483.079 3718824.192 468.93
   LOCATION L0000577     VOLUME   484482.815 3718815.606 468.91
   LOCATION L0000578     VOLUME   484482.552 3718807.020 468.94
   LOCATION L0000579     VOLUME   484482.288 3718798.434 468.97
   LOCATION L0000580     VOLUME   484487.866 3718795.338 468.92
   LOCATION L0000581     VOLUME   484496.451 3718795.070 468.83
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC 3A3B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.079E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484461.992, 3718999.520, 468.88, 3.49, 4.00
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** 484462.191, 3718976.024, 468.82, 3.49, 4.00
** 484509.384, 3718977.019, 467.74, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000582     VOLUME   484462.029 3718995.226 468.60
   LOCATION L0000583     VOLUME   484462.101 3718986.636 468.60
   LOCATION L0000584     VOLUME   484462.174 3718978.046 468.59
   LOCATION L0000585     VOLUME   484468.757 3718976.162 468.38
   LOCATION L0000586     VOLUME   484477.345 3718976.343 468.09
   LOCATION L0000587     VOLUME   484485.933 3718976.525 467.86
   LOCATION L0000588     VOLUME   484494.521 3718976.706 467.65
   LOCATION L0000589     VOLUME   484503.110 3718976.887 467.44
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC 4A4B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.235E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484467.552, 3719121.585, 465.79, 3.49, 4.00
** 484467.277, 3719086.031, 465.17, 3.49, 4.00
** 484514.130, 3719085.756, 463.96, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000590     VOLUME   484467.519 3719117.290 465.88
   LOCATION L0000591     VOLUME   484467.452 3719108.700 465.59
   LOCATION L0000592     VOLUME   484467.386 3719100.111 465.31
   LOCATION L0000593     VOLUME   484467.319 3719091.521 465.03
   LOCATION L0000594     VOLUME   484470.377 3719086.013 464.64
   LOCATION L0000595     VOLUME   484478.967 3719085.963 464.07
   LOCATION L0000596     VOLUME   484487.557 3719085.912 464.00
   LOCATION L0000597     VOLUME   484496.146 3719085.862 464.00
   LOCATION L0000598     VOLUME   484504.736 3719085.811 463.99
   LOCATION L0000599     VOLUME   484513.326 3719085.760 463.88
** End of LINE VOLUME Source ID = SLINE10
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC 1A1B Antelope Offsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.418E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 12
** 484139.332, 3718898.546, 481.64, 3.49, 4.00
** 484134.468, 3718788.277, 479.08, 3.49, 4.00
** 484124.089, 3718558.009, 474.86, 3.49, 4.00
** 484121.495, 3718434.767, 472.94, 3.49, 4.00
** 484180.521, 3718432.497, 471.00, 3.49, 4.00
** 484375.114, 3718432.497, 468.00, 3.49, 4.00
** 484419.221, 3718432.173, 468.04, 3.49, 4.00
** 484439.654, 3718430.551, 468.69, 3.49, 4.00
** 484451.329, 3718421.794, 468.95, 3.49, 4.00
** 484455.545, 3718410.119, 468.48, 3.49, 4.00
** 484456.843, 3718392.930, 467.94, 3.49, 4.00
** 484456.194, 3718370.876, 466.87, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000600     VOLUME   484139.143 3718894.255 481.19
   LOCATION L0000601     VOLUME   484138.764 3718885.674 480.82
   LOCATION L0000602     VOLUME   484138.386 3718877.092 480.44
   LOCATION L0000603     VOLUME   484138.007 3718868.510 480.25
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LOCATION L0000604 VOLUME 484137.629 3718859.929 480.10
LOCATION L0000605 VOLUME 484137.250 3718851.347 479.95
LOCATION L0000606 VOLUME 484136.871 3718842.765 479.77
LOCATION L0000607 VOLUME 484136.493 3718834.184 479.51
LOCATION L0000608 VOLUME 484136.114 3718825.602 479.25
LOCATION L0000609 VOLUME 484135.736 3718817.020 478.99
LOCATION L0000610 VOLUME 484135.357 3718808.439 478.98
LOCATION L0000611 VOLUME 484134.978 3718799.857 479.00
LOCATION L0000612 VOLUME 484134.600 3718791.276 479.03
LOCATION L0000613 VOLUME 484134.216 3718782.694 478.83
LOCATION L0000614 VOLUME 484133.829 3718774.113 478.29
LOCATION L0000615 VOLUME 484133.442 3718765.532 477.74
LOCATION L0000616 VOLUME 484133.056 3718756.950 477.19
LOCATION L0000617 VOLUME 484132.669 3718748.369 476.75
LOCATION L0000618 VOLUME 484132.282 3718739.788 476.32
LOCATION L0000619 VOLUME 484131.895 3718731.206 475.88
LOCATION L0000620 VOLUME 484131.509 3718722.625 475.62
LOCATION L0000621 VOLUME 484131.122 3718714.044 475.63
LOCATION L0000622 VOLUME 484130.735 3718705.463 475.64
LOCATION L0000623 VOLUME 484130.348 3718696.881 475.66
LOCATION L0000624 VOLUME 484129.962 3718688.300 475.67
LOCATION L0000625 VOLUME 484129.575 3718679.719 475.68
LOCATION L0000626 VOLUME 484129.188 3718671.137 475.69
LOCATION L0000627 VOLUME 484128.801 3718662.556 475.59
LOCATION L0000628 VOLUME 484128.415 3718653.975 475.32
LOCATION L0000629 VOLUME 484128.028 3718645.393 475.05
LOCATION L0000630 VOLUME 484127.641 3718636.812 474.77
LOCATION L0000631 VOLUME 484127.254 3718628.231 474.56
LOCATION L0000632 VOLUME 484126.867 3718619.650 474.35
LOCATION L0000633 VOLUME 484126.481 3718611.068 474.13
LOCATION L0000634 VOLUME 484126.094 3718602.487 474.00
LOCATION L0000635 VOLUME 484125.707 3718593.906 474.00
LOCATION L0000636 VOLUME 484125.320 3718585.324 474.00
LOCATION L0000637 VOLUME 484124.934 3718576.743 474.00
LOCATION L0000638 VOLUME 484124.547 3718568.162 474.22
LOCATION L0000639 VOLUME 484124.160 3718559.581 474.47
LOCATION L0000640 VOLUME 484123.942 3718550.994 474.72
LOCATION L0000641 VOLUME 484123.761 3718542.406 474.87
LOCATION L0000642 VOLUME 484123.580 3718533.818 474.88
LOCATION L0000643 VOLUME 484123.399 3718525.229 474.89
LOCATION L0000644 VOLUME 484123.218 3718516.641 474.89
LOCATION L0000645 VOLUME 484123.038 3718508.053 474.63
LOCATION L0000646 VOLUME 484122.857 3718499.465 474.35
LOCATION L0000647 VOLUME 484122.676 3718490.877 474.07
LOCATION L0000648 VOLUME 484122.495 3718482.289 473.91
LOCATION L0000649 VOLUME 484122.314 3718473.701 473.89
LOCATION L0000650 VOLUME 484122.134 3718465.113 473.88
LOCATION L0000651 VOLUME 484121.953 3718456.525 473.87
LOCATION L0000652 VOLUME 484121.772 3718447.937 473.63
LOCATION L0000653 VOLUME 484121.591 3718439.348 473.37
LOCATION L0000654 VOLUME 484125.499 3718434.613 473.05
LOCATION L0000655 VOLUME 484134.083 3718434.283 472.68
LOCATION L0000656 VOLUME 484142.667 3718433.953 472.31
LOCATION L0000657 VOLUME 484151.250 3718433.623 471.97
LOCATION L0000658 VOLUME 484159.834 3718433.293 471.75
LOCATION L0000659 VOLUME 484168.418 3718432.963 471.53
LOCATION L0000660 VOLUME 484177.001 3718432.632 471.30
LOCATION L0000661 VOLUME 484185.589 3718432.497 470.99
LOCATION L0000662 VOLUME 484194.179 3718432.497 470.64
LOCATION L0000663 VOLUME 484202.769 3718432.497 470.29
LOCATION L0000664 VOLUME 484211.359 3718432.497 470.00
LOCATION L0000665 VOLUME 484219.949 3718432.497 470.00
LOCATION L0000666 VOLUME 484228.539 3718432.497 470.00
LOCATION L0000667 VOLUME 484237.129 3718432.497 470.00
LOCATION L0000668 VOLUME 484245.719 3718432.497 469.81
LOCATION L0000669 VOLUME 484254.309 3718432.497 469.52

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   LOCATION L0000670     VOLUME   484262.899 3718432.497 469.24
   LOCATION L0000671     VOLUME   484271.489 3718432.497 469.00
   LOCATION L0000672     VOLUME   484280.079 3718432.497 469.00
   LOCATION L0000673     VOLUME   484288.669 3718432.497 469.00
   LOCATION L0000674     VOLUME   484297.259 3718432.497 469.00
   LOCATION L0000675     VOLUME   484305.849 3718432.497 468.85
   LOCATION L0000676     VOLUME   484314.439 3718432.497 468.62
   LOCATION L0000677     VOLUME   484323.029 3718432.497 468.40
   LOCATION L0000678     VOLUME   484331.619 3718432.497 468.21
   LOCATION L0000679     VOLUME   484340.209 3718432.497 468.14
   LOCATION L0000680     VOLUME   484348.799 3718432.497 468.08
   LOCATION L0000681     VOLUME   484357.389 3718432.497 468.02
   LOCATION L0000682     VOLUME   484365.979 3718432.497 468.00
   LOCATION L0000683     VOLUME   484374.569 3718432.497 468.00
   LOCATION L0000684     VOLUME   484383.159 3718432.438 468.00
   LOCATION L0000685     VOLUME   484391.748 3718432.375 468.00
   LOCATION L0000686     VOLUME   484400.338 3718432.312 468.00
   LOCATION L0000687     VOLUME   484408.928 3718432.248 468.00
   LOCATION L0000688     VOLUME   484417.518 3718432.185 468.00
   LOCATION L0000689     VOLUME   484426.086 3718431.628 468.20
   LOCATION L0000690     VOLUME   484434.649 3718430.948 468.49
   LOCATION L0000691     VOLUME   484442.509 3718428.409 468.75
   LOCATION L0000692     VOLUME   484449.381 3718423.255 468.89
   LOCATION L0000693     VOLUME   484453.420 3718416.005 468.67
   LOCATION L0000694     VOLUME   484455.721 3718407.794 468.39
   LOCATION L0000695     VOLUME   484456.367 3718399.228 468.11
   LOCATION L0000696     VOLUME   484456.776 3718390.657 467.78
   LOCATION L0000697     VOLUME   484456.523 3718382.071 467.44
   LOCATION L0000698     VOLUME   484456.271 3718373.484 467.09
** End of LINE VOLUME Source ID = SLINE11
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC 1A1B Offsite Linnel
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 7.03E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 7
** 484457.167, 3718361.146, 466.81, 3.49, 6.51
** 484632.949, 3718359.849, 461.98, 3.49, 6.51
** 484653.381, 3718360.498, 460.93, 3.49, 6.51
** 484669.921, 3718362.768, 460.60, 3.49, 6.51
** 484788.623, 3718376.714, 457.93, 3.49, 6.51
** 484820.731, 3718379.633, 457.63, 3.49, 6.51
** 484876.838, 3718380.281, 456.64, 3.49, 6.51
** ----------------------------------------------------------------------
   LOCATION L0000699     VOLUME   484464.167 3718361.095 466.44
   LOCATION L0000700     VOLUME   484478.166 3718360.991 466.05
   LOCATION L0000701     VOLUME   484492.166 3718360.888 465.93
   LOCATION L0000702     VOLUME   484506.166 3718360.785 465.85
   LOCATION L0000703     VOLUME   484520.165 3718360.681 465.48
   LOCATION L0000704     VOLUME   484534.165 3718360.578 465.01
   LOCATION L0000705     VOLUME   484548.164 3718360.475 464.59
   LOCATION L0000706     VOLUME   484562.164 3718360.371 464.21
   LOCATION L0000707     VOLUME   484576.164 3718360.268 463.80
   LOCATION L0000708     VOLUME   484590.163 3718360.165 463.33
   LOCATION L0000709     VOLUME   484604.163 3718360.062 462.86
   LOCATION L0000710     VOLUME   484618.163 3718359.958 462.40
   LOCATION L0000711     VOLUME   484632.162 3718359.855 461.91
   LOCATION L0000712     VOLUME   484646.155 3718360.268 461.36
   LOCATION L0000713     VOLUME   484660.089 3718361.418 460.84
   LOCATION L0000714     VOLUME   484673.969 3718363.244 459.98
   LOCATION L0000715     VOLUME   484687.873 3718364.877 459.11
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   LOCATION L0000716     VOLUME   484701.778 3718366.511 458.64
   LOCATION L0000717     VOLUME   484715.682 3718368.144 458.23
   LOCATION L0000718     VOLUME   484729.586 3718369.778 458.09
   LOCATION L0000719     VOLUME   484743.491 3718371.411 458.04
   LOCATION L0000720     VOLUME   484757.395 3718373.045 458.06
   LOCATION L0000721     VOLUME   484771.299 3718374.679 458.21
   LOCATION L0000722     VOLUME   484785.204 3718376.312 458.28
   LOCATION L0000723     VOLUME   484799.137 3718377.670 458.14
   LOCATION L0000724     VOLUME   484813.079 3718378.937 457.94
   LOCATION L0000725     VOLUME   484827.048 3718379.706 457.69
   LOCATION L0000726     VOLUME   484841.047 3718379.868 457.43
   LOCATION L0000727     VOLUME   484855.046 3718380.029 456.97
   LOCATION L0000728     VOLUME   484869.045 3718380.191 456.51
** End of LINE VOLUME Source ID = SLINE12
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC 4A4B Offsite Warm Springs
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 7.027E-08
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 484529.828, 3719083.722, 463.22, 3.49, 6.51
** 484527.584, 3719049.605, 463.24, 3.49, 6.51
** 484525.788, 3719013.244, 465.31, 3.49, 6.51
** 484523.993, 3718975.985, 466.84, 3.49, 6.51
** ----------------------------------------------------------------------
   LOCATION L0000729     VOLUME   484529.369 3719076.737 463.25
   LOCATION L0000730     VOLUME   484528.450 3719062.768 463.09
   LOCATION L0000731     VOLUME   484527.544 3719048.797 463.48
   LOCATION L0000732     VOLUME   484526.854 3719034.814 464.41
   LOCATION L0000733     VOLUME   484526.163 3719020.831 465.08
   LOCATION L0000734     VOLUME   484525.480 3719006.848 465.31
   LOCATION L0000735     VOLUME   484524.806 3718992.864 465.61
   LOCATION L0000736     VOLUME   484524.132 3718978.880 466.13
** End of LINE VOLUME Source ID = SLINE13
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC 4A4B 3A3B Offsite Warm Springs
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 2.451E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484523.544, 3718977.332, 466.89, 3.49, 6.51
** 484514.117, 3718791.036, 469.00, 3.49, 6.51
** ----------------------------------------------------------------------
   LOCATION L0000737     VOLUME   484523.190 3718970.341 466.52
   LOCATION L0000738     VOLUME   484522.483 3718956.359 467.29
   LOCATION L0000739     VOLUME   484521.775 3718942.376 468.06
   LOCATION L0000740     VOLUME   484521.067 3718928.394 468.53
   LOCATION L0000741     VOLUME   484520.360 3718914.412 468.82
   LOCATION L0000742     VOLUME   484519.652 3718900.430 469.00
   LOCATION L0000743     VOLUME   484518.945 3718886.448 469.00
   LOCATION L0000744     VOLUME   484518.237 3718872.466 469.00
   LOCATION L0000745     VOLUME   484517.530 3718858.484 469.00
   LOCATION L0000746     VOLUME   484516.822 3718844.502 468.95
   LOCATION L0000747     VOLUME   484516.115 3718830.520 468.48
   LOCATION L0000748     VOLUME   484515.407 3718816.537 468.02
   LOCATION L0000749     VOLUME   484514.700 3718802.555 468.45
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** End of LINE VOLUME Source ID = SLINE14
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC 2-4 Running Rabbit Offsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.234E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484514.117, 3718780.711, 469.00, 3.49, 4.00
** 484593.573, 3718779.364, 467.28, 3.49, 4.00
** 484889.851, 3718774.875, 457.54, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000750     VOLUME   484518.411 3718780.638 469.00
   LOCATION L0000751     VOLUME   484527.000 3718780.493 469.00
   LOCATION L0000752     VOLUME   484535.589 3718780.347 469.00
   LOCATION L0000753     VOLUME   484544.177 3718780.202 469.00
   LOCATION L0000754     VOLUME   484552.766 3718780.056 469.00
   LOCATION L0000755     VOLUME   484561.355 3718779.910 469.00
   LOCATION L0000756     VOLUME   484569.944 3718779.765 469.00
   LOCATION L0000757     VOLUME   484578.533 3718779.619 468.49
   LOCATION L0000758     VOLUME   484587.121 3718779.474 467.98
   LOCATION L0000759     VOLUME   484595.710 3718779.332 467.48
   LOCATION L0000760     VOLUME   484604.299 3718779.202 467.05
   LOCATION L0000761     VOLUME   484612.888 3718779.072 466.70
   LOCATION L0000762     VOLUME   484621.477 3718778.942 466.35
   LOCATION L0000763     VOLUME   484630.066 3718778.811 466.00
   LOCATION L0000764     VOLUME   484638.655 3718778.681 465.71
   LOCATION L0000765     VOLUME   484647.244 3718778.551 465.43
   LOCATION L0000766     VOLUME   484655.833 3718778.421 465.14
   LOCATION L0000767     VOLUME   484664.422 3718778.291 464.85
   LOCATION L0000768     VOLUME   484673.011 3718778.161 464.57
   LOCATION L0000769     VOLUME   484681.600 3718778.031 464.28
   LOCATION L0000770     VOLUME   484690.189 3718777.901 464.00
   LOCATION L0000771     VOLUME   484698.778 3718777.770 464.00
   LOCATION L0000772     VOLUME   484707.367 3718777.640 464.00
   LOCATION L0000773     VOLUME   484715.956 3718777.510 464.00
   LOCATION L0000774     VOLUME   484724.545 3718777.380 464.00
   LOCATION L0000775     VOLUME   484733.134 3718777.250 464.00
   LOCATION L0000776     VOLUME   484741.723 3718777.120 464.00
   LOCATION L0000777     VOLUME   484750.312 3718776.990 464.00
   LOCATION L0000778     VOLUME   484758.901 3718776.859 464.00
   LOCATION L0000779     VOLUME   484767.490 3718776.729 464.00
   LOCATION L0000780     VOLUME   484776.079 3718776.599 464.00
   LOCATION L0000781     VOLUME   484784.668 3718776.469 463.85
   LOCATION L0000782     VOLUME   484793.257 3718776.339 463.56
   LOCATION L0000783     VOLUME   484801.846 3718776.209 463.27
   LOCATION L0000784     VOLUME   484810.435 3718776.079 462.96
   LOCATION L0000785     VOLUME   484819.025 3718775.948 462.10
   LOCATION L0000786     VOLUME   484827.614 3718775.818 461.24
   LOCATION L0000787     VOLUME   484836.203 3718775.688 460.38
   LOCATION L0000788     VOLUME   484844.792 3718775.558 459.68
   LOCATION L0000789     VOLUME   484853.381 3718775.428 459.11
   LOCATION L0000790     VOLUME   484861.970 3718775.298 458.54
   LOCATION L0000791     VOLUME   484870.559 3718775.168 457.98
   LOCATION L0000792     VOLUME   484879.148 3718775.038 457.70
   LOCATION L0000793     VOLUME   484887.737 3718774.907 457.41
** End of LINE VOLUME Source ID = SLINE15
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC 2-4 Offsite Whitewood
** PREFIX
```

```
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 2.353E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484902.420, 3718775.324, 457.07, 3.49, 6.51
** 484886.708, 3718379.839, 456.55, 3.49, 6.51
** ----------------------------------------------------------------
   LOCATION L0000794     VOLUME   484902.142 3718768.330 457.00
   LOCATION L0000795     VOLUME   484901.586 3718754.341 457.05
   LOCATION L0000796     VOLUME   484901.031 3718740.352 457.50
   LOCATION L0000797     VOLUME   484900.475 3718726.363 457.97
   LOCATION L0000798     VOLUME   484899.919 3718712.374 458.00
   LOCATION L0000799     VOLUME   484899.363 3718698.385 458.02
   LOCATION L0000800     VOLUME   484898.808 3718684.396 458.09
   LOCATION L0000801     VOLUME   484898.252 3718670.407 458.21
   LOCATION L0000802     VOLUME   484897.696 3718656.418 459.22
   LOCATION L0000803     VOLUME   484897.140 3718642.429 460.59
   LOCATION L0000804     VOLUME   484896.585 3718628.440 461.23
   LOCATION L0000805     VOLUME   484896.029 3718614.451 461.27
   LOCATION L0000806     VOLUME   484895.473 3718600.462 461.12
   LOCATION L0000807     VOLUME   484894.917 3718586.473 460.69
   LOCATION L0000808     VOLUME   484894.362 3718572.484 460.14
   LOCATION L0000809     VOLUME   484893.806 3718558.495 459.25
   LOCATION L0000810     VOLUME   484893.250 3718544.506 458.43
   LOCATION L0000811     VOLUME   484892.694 3718530.517 458.24
   LOCATION L0000812     VOLUME   484892.139 3718516.528 458.01
   LOCATION L0000813     VOLUME   484891.583 3718502.539 457.68
   LOCATION L0000814     VOLUME   484891.027 3718488.550 457.36
   LOCATION L0000815     VOLUME   484890.471 3718474.562 457.58
   LOCATION L0000816     VOLUME   484889.916 3718460.573 457.90
   LOCATION L0000817     VOLUME   484889.360 3718446.584 458.00
   LOCATION L0000818     VOLUME   484888.804 3718432.595 458.00
   LOCATION L0000819     VOLUME   484888.248 3718418.606 457.75
   LOCATION L0000820     VOLUME   484887.693 3718404.617 457.29
   LOCATION L0000821     VOLUME   484887.137 3718390.628 456.92
** End of LINE VOLUME Source ID = SLINE16
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Offsite Clinton Keith 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00001539
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 15
** 484886.708, 3718379.839, 456.55, 3.49, 6.51
** 484887.157, 3718180.974, 453.40, 3.49, 6.51
** 484890.299, 3717905.346, 454.11, 3.49, 6.51
** 484892.544, 3717675.057, 451.19, 3.49, 6.51
** 484895.237, 3717577.196, 449.19, 3.49, 6.51
** 484691.434, 3717579.440, 462.18, 3.49, 6.51
** 484367.774, 3717580.338, 462.00, 3.49, 6.51
** 484196.292, 3717582.583, 462.90, 3.49, 6.51
** 484098.879, 3717583.480, 464.75, 3.49, 6.51
** 484060.722, 3717582.583, 465.92, 3.49, 6.51
** 483961.963, 3717608.619, 466.99, 3.49, 6.51
** 483835.372, 3717649.918, 459.36, 3.49, 6.51
** 483785.543, 3717666.079, 457.06, 3.49, 6.51
** 483722.697, 3717683.137, 458.17, 3.49, 6.51
** 483692.171, 3717688.524, 460.32, 3.49, 6.51
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   LOCATION L0000822     VOLUME   484886.724 3718372.839 456.66
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LOCATION L0000823 VOLUME 484886.756 3718358.839 456.42
LOCATION L0000824 VOLUME 484886.787 3718344.839 456.16
LOCATION L0000825 VOLUME 484886.819 3718330.839 456.00
LOCATION L0000826 VOLUME 484886.850 3718316.839 456.00
LOCATION L0000827 VOLUME 484886.882 3718302.839 456.11
LOCATION L0000828 VOLUME 484886.914 3718288.839 456.57
LOCATION L0000829 VOLUME 484886.945 3718274.839 457.00
LOCATION L0000830 VOLUME 484886.977 3718260.839 457.00
LOCATION L0000831 VOLUME 484887.008 3718246.839 457.00
LOCATION L0000832 VOLUME 484887.040 3718232.839 456.50
LOCATION L0000833 VOLUME 484887.072 3718218.839 455.97
LOCATION L0000834 VOLUME 484887.103 3718204.839 454.96
LOCATION L0000835 VOLUME 484887.135 3718190.839 453.82
LOCATION L0000836 VOLUME 484887.204 3718176.839 453.12
LOCATION L0000837 VOLUME 484887.364 3718162.840 452.65
LOCATION L0000838 VOLUME 484887.523 3718148.841 452.75
LOCATION L0000839 VOLUME 484887.683 3718134.842 453.41
LOCATION L0000840 VOLUME 484887.843 3718120.843 454.19
LOCATION L0000841 VOLUME 484888.002 3718106.844 455.21
LOCATION L0000842 VOLUME 484888.162 3718092.845 456.04
LOCATION L0000843 VOLUME 484888.321 3718078.846 456.22
LOCATION L0000844 VOLUME 484888.481 3718064.847 456.38
LOCATION L0000845 VOLUME 484888.641 3718050.848 456.38
LOCATION L0000846 VOLUME 484888.800 3718036.848 456.37
LOCATION L0000847 VOLUME 484888.960 3718022.849 456.37
LOCATION L0000848 VOLUME 484889.119 3718008.850 456.36
LOCATION L0000849 VOLUME 484889.279 3717994.851 456.23
LOCATION L0000850 VOLUME 484889.439 3717980.852 456.06
LOCATION L0000851 VOLUME 484889.598 3717966.853 455.80
LOCATION L0000852 VOLUME 484889.758 3717952.854 455.49
LOCATION L0000853 VOLUME 484889.917 3717938.855 455.18
LOCATION L0000854 VOLUME 484890.077 3717924.856 454.86
LOCATION L0000855 VOLUME 484890.237 3717910.857 454.48
LOCATION L0000856 VOLUME 484890.382 3717896.857 454.00
LOCATION L0000857 VOLUME 484890.519 3717882.858 453.50
LOCATION L0000858 VOLUME 484890.655 3717868.859 452.87
LOCATION L0000859 VOLUME 484890.792 3717854.859 452.30
LOCATION L0000860 VOLUME 484890.928 3717840.860 452.15
LOCATION L0000861 VOLUME 484891.064 3717826.861 452.01
LOCATION L0000862 VOLUME 484891.201 3717812.861 451.56
LOCATION L0000863 VOLUME 484891.337 3717798.862 451.10
LOCATION L0000864 VOLUME 484891.474 3717784.863 450.73
LOCATION L0000865 VOLUME 484891.610 3717770.863 450.40
LOCATION L0000866 VOLUME 484891.747 3717756.864 450.97
LOCATION L0000867 VOLUME 484891.883 3717742.865 452.02
LOCATION L0000868 VOLUME 484892.020 3717728.865 452.66
LOCATION L0000869 VOLUME 484892.156 3717714.866 452.89
LOCATION L0000870 VOLUME 484892.292 3717700.867 452.82
LOCATION L0000871 VOLUME 484892.429 3717686.867 452.21
LOCATION L0000872 VOLUME 484892.604 3717672.869 451.61
LOCATION L0000873 VOLUME 484892.989 3717658.874 451.00
LOCATION L0000874 VOLUME 484893.375 3717644.879 450.40
LOCATION L0000875 VOLUME 484893.760 3717630.885 449.81
LOCATION L0000876 VOLUME 484894.145 3717616.890 449.23
LOCATION L0000877 VOLUME 484894.530 3717602.895 449.26
LOCATION L0000878 VOLUME 484894.915 3717588.901 449.32
LOCATION L0000879 VOLUME 484892.947 3717577.221 449.47
LOCATION L0000880 VOLUME 484878.948 3717577.375 450.40
LOCATION L0000881 VOLUME 484864.949 3717577.529 451.34
LOCATION L0000882 VOLUME 484850.949 3717577.684 452.27
LOCATION L0000883 VOLUME 484836.950 3717577.838 453.31
LOCATION L0000884 VOLUME 484822.951 3717577.992 454.71
LOCATION L0000885 VOLUME 484808.952 3717578.146 456.13
LOCATION L0000886 VOLUME 484794.953 3717578.300 457.89
LOCATION L0000887 VOLUME 484780.954 3717578.454 459.64
LOCATION L0000888 VOLUME 484766.954 3717578.609 461.27

LOCATION L0000889 VOLUME 484752.955 3717578.763 462.90
LOCATION L0000890 VOLUME 484738.956 3717578.917 463.24
LOCATION L0000891 VOLUME 484724.957 3717579.071 463.23
LOCATION L0000892 VOLUME 484710.958 3717579.225 462.99
LOCATION L0000893 VOLUME 484696.959 3717579.380 462.62
LOCATION L0000894 VOLUME 484682.959 3717579.464 462.38
LOCATION L0000895 VOLUME 484668.959 3717579.503 462.28
LOCATION L0000896 VOLUME 484654.959 3717579.542 462.22
LOCATION L0000897 VOLUME 484640.959 3717579.580 462.21
LOCATION L0000898 VOLUME 484626.959 3717579.619 462.11
LOCATION L0000899 VOLUME 484612.959 3717579.658 461.64
LOCATION L0000900 VOLUME 484598.959 3717579.697 461.21
LOCATION L0000901 VOLUME 484584.959 3717579.736 461.21
LOCATION L0000902 VOLUME 484570.960 3717579.775 461.21
LOCATION L0000903 VOLUME 484556.960 3717579.813 460.86
LOCATION L0000904 VOLUME 484542.960 3717579.852 460.49
LOCATION L0000905 VOLUME 484528.960 3717579.891 460.63
LOCATION L0000906 VOLUME 484514.960 3717579.930 460.90
LOCATION L0000907 VOLUME 484500.960 3717579.969 461.06
LOCATION L0000908 VOLUME 484486.960 3717580.008 461.15
LOCATION L0000909 VOLUME 484472.960 3717580.046 461.20
LOCATION L0000910 VOLUME 484458.960 3717580.085 461.20
LOCATION L0000911 VOLUME 484444.960 3717580.124 461.33
LOCATION L0000912 VOLUME 484430.960 3717580.163 461.71
LOCATION L0000913 VOLUME 484416.960 3717580.202 462.00
LOCATION L0000914 VOLUME 484402.960 3717580.241 462.00
LOCATION L0000915 VOLUME 484388.960 3717580.279 462.00
LOCATION L0000916 VOLUME 484374.960 3717580.318 462.00
LOCATION L0000917 VOLUME 484360.961 3717580.427 462.00
LOCATION L0000918 VOLUME 484346.962 3717580.611 462.00
LOCATION L0000919 VOLUME 484332.963 3717580.794 462.00
LOCATION L0000920 VOLUME 484318.964 3717580.977 462.00
LOCATION L0000921 VOLUME 484304.966 3717581.160 462.00
LOCATION L0000922 VOLUME 484290.967 3717581.343 462.00
LOCATION L0000923 VOLUME 484276.968 3717581.527 462.00
LOCATION L0000924 VOLUME 484262.969 3717581.710 462.20
LOCATION L0000925 VOLUME 484248.970 3717581.893 462.61
LOCATION L0000926 VOLUME 484234.972 3717582.076 462.87
LOCATION L0000927 VOLUME 484220.973 3717582.260 462.88
LOCATION L0000928 VOLUME 484206.974 3717582.443 462.88
LOCATION L0000929 VOLUME 484192.975 3717582.613 462.89
LOCATION L0000930 VOLUME 484178.976 3717582.742 462.89
LOCATION L0000931 VOLUME 484164.976 3717582.871 462.90
LOCATION L0000932 VOLUME 484150.977 3717583.000 462.90
LOCATION L0000933 VOLUME 484136.977 3717583.129 463.30
LOCATION L0000934 VOLUME 484122.978 3717583.258 463.73
LOCATION L0000935 VOLUME 484108.979 3717583.387 464.19
LOCATION L0000936 VOLUME 484094.980 3717583.389 464.66
LOCATION L0000937 VOLUME 484080.984 3717583.059 465.08
LOCATION L0000938 VOLUME 484066.988 3717582.730 465.47
LOCATION L0000939 VOLUME 484053.245 3717584.554 465.64
LOCATION L0000940 VOLUME 484039.708 3717588.123 465.47
LOCATION L0000941 VOLUME 484026.170 3717591.692 465.30
LOCATION L0000942 VOLUME 484012.633 3717595.261 465.40
LOCATION L0000943 VOLUME 483999.095 3717598.830 465.73
LOCATION L0000944 VOLUME 483985.558 3717602.399 466.41
LOCATION L0000945 VOLUME 483972.020 3717605.968 466.97
LOCATION L0000946 VOLUME 483958.542 3717609.735 466.16
LOCATION L0000947 VOLUME 483945.232 3717614.078 464.72
LOCATION L0000948 VOLUME 483931.922 3717618.420 463.79
LOCATION L0000949 VOLUME 483918.613 3717622.762 463.35
LOCATION L0000950 VOLUME 483905.303 3717627.104 462.79
LOCATION L0000951 VOLUME 483891.994 3717631.446 462.09
LOCATION L0000952 VOLUME 483878.684 3717635.788 461.28
LOCATION L0000953 VOLUME 483865.374 3717640.130 460.61
LOCATION L0000954 VOLUME 483852.065 3717644.473 460.07

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   LOCATION L0000955     VOLUME   483838.755 3717648.815 459.59
   LOCATION L0000956     VOLUME   483825.440 3717653.140 458.99
   LOCATION L0000957     VOLUME   483812.123 3717657.459 458.19
   LOCATION L0000958     VOLUME   483798.806 3717661.778 457.43
   LOCATION L0000959     VOLUME   483785.488 3717666.094 457.00
   LOCATION L0000960     VOLUME   483771.977 3717669.761 457.00
   LOCATION L0000961     VOLUME   483758.465 3717673.429 457.05
   LOCATION L0000962     VOLUME   483744.954 3717677.096 457.56
   LOCATION L0000963     VOLUME   483731.443 3717680.763 458.26
   LOCATION L0000964     VOLUME   483717.835 3717683.995 459.34
   LOCATION L0000965     VOLUME   483704.048 3717686.428 460.43
** End of LINE VOLUME Source ID = SLINE17
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000493     0.000001148      3.49      4.00      3.25
   SRCPARAM L0000494     0.000001148      3.49      4.00      3.25
   SRCPARAM L0000495     0.000001148      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000496     0.00000121      3.49      4.00      3.25
   SRCPARAM L0000497     0.00000121      3.49      4.00      3.25
   SRCPARAM L0000498     0.00000121      3.49      4.00      3.25
   SRCPARAM L0000499     0.00000121      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0000500     0.000001176      3.49      4.00      3.25
   SRCPARAM L0000501     0.000001176      3.49      4.00      3.25
   SRCPARAM L0000502     0.000001176      3.49      4.00      3.25
   SRCPARAM L0000503     0.000001176      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0000504     0.000000683      3.49      4.00      3.25
   SRCPARAM L0000505     0.000000683      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0000506     0.000000671      3.49      4.00      3.25
   SRCPARAM L0000507     0.000000671      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0000508     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000509     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000510     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000511     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000512     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000513     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000514     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000515     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000516     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000517     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000518     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000519     0.00000003361      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0000520     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000521     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000522     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000523     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000524     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000525     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000526     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000527     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000528     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000529     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000530     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000531     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000532     0.00000004668      3.49      4.00      3.25
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   SRCPARAM L0000533     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000534     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000535     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000536     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000537     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000538     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000539     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000540     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000541     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000542     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000543     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000544     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000545     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000546     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000547     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000548     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000549     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000550     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000551     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000552     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000553     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000554     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000555     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000556     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000557     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000558     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000559     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000560     0.00000004668      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0000561     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000562     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000563     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000564     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000565     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000566     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000567     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000568     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000569     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000570     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000571     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000572     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000573     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000574     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000575     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000576     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000577     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000578     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000579     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000580     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000581     0.00000004568      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0000582     0.00000001349      3.49      4.00      3.25
   SRCPARAM L0000583     0.00000001349      3.49      4.00      3.25
   SRCPARAM L0000584     0.00000001349      3.49      4.00      3.25
   SRCPARAM L0000585     0.00000001349      3.49      4.00      3.25
   SRCPARAM L0000586     0.00000001349      3.49      4.00      3.25
   SRCPARAM L0000587     0.00000001349      3.49      4.00      3.25
   SRCPARAM L0000588     0.00000001349      3.49      4.00      3.25
   SRCPARAM L0000589     0.00000001349      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0000590     0.00000001235      3.49      4.00      3.25
   SRCPARAM L0000591     0.00000001235      3.49      4.00      3.25
   SRCPARAM L0000592     0.00000001235      3.49      4.00      3.25
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   SRCPARAM L0000593     0.00000001235      3.49      4.00      3.25
   SRCPARAM L0000594     0.00000001235      3.49      4.00      3.25
   SRCPARAM L0000595     0.00000001235      3.49      4.00      3.25
   SRCPARAM L0000596     0.00000001235      3.49      4.00      3.25
   SRCPARAM L0000597     0.00000001235      3.49      4.00      3.25
   SRCPARAM L0000598     0.00000001235      3.49      4.00      3.25
   SRCPARAM L0000599     0.00000001235      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0000600     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000601     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000602     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000603     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000604     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000605     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000606     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000607     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000608     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000609     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000610     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000611     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000612     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000613     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000614     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000615     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000616     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000617     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000618     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000619     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000620     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000621     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000622     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000623     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000624     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000625     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000626     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000627     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000628     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000629     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000630     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000631     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000632     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000633     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000634     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000635     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000636     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000637     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000638     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000639     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000640     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000641     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000642     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000643     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000644     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000645     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000646     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000647     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000648     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000649     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000650     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000651     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000652     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000653     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000654     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000655     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000656     0.00000001432      3.49      4.00      3.25
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   SRCPARAM L0000657     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000658     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000659     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000660     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000661     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000662     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000663     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000664     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000665     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000666     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000667     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000668     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000669     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000670     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000671     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000672     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000673     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000674     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000675     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000676     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000677     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000678     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000679     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000680     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000681     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000682     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000683     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000684     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000685     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000686     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000687     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000688     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000689     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000690     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000691     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000692     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000693     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000694     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000695     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000696     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000697     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000698     0.00000001432      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0000699     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000700     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000701     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000702     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000703     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000704     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000705     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000706     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000707     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000708     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000709     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000710     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000711     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000712     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000713     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000714     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000715     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000716     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000717     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000718     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000719     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000720     0.00000002343      3.49      6.51      3.25
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   SRCPARAM L0000721     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000722     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000723     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000724     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000725     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000726     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000727     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000728     0.00000002343      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0000729     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000730     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000731     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000732     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000733     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000734     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000735     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000736     0.000000008784      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0000737     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000738     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000739     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000740     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000741     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000742     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000743     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000744     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000745     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000746     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000747     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000748     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000749     0.00000001885      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0000750     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000751     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000752     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000753     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000754     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000755     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000756     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000757     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000758     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000759     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000760     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000761     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000762     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000763     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000764     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000765     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000766     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000767     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000768     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000769     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000770     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000771     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000772     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000773     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000774     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000775     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000776     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000777     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000778     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000779     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000780     0.00000005077      3.49      4.00      3.25
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   SRCPARAM L0000781     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000782     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000783     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000784     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000785     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000786     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000787     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000788     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000789     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000790     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000791     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000792     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000793     0.00000005077      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0000794     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000795     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000796     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000797     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000798     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000799     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000800     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000801     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000802     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000803     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000804     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000805     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000806     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000807     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000808     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000809     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000810     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000811     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000812     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000813     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000814     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000815     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000816     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000817     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000818     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000819     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000820     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000821     0.00000008404      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0000822     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000823     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000824     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000825     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000826     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000827     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000828     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000829     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000830     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000831     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000832     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000833     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000834     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000835     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000836     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000837     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000838     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000839     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000840     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000841     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000842     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000843     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000844     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000845     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000846     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000847     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000848     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000849     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000850     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000851     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000852     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000853     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000854     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000855     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000856     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000857     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000858     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000859     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000860     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000861     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000862     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000863     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000864     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000865     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000866     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000867     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000868     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000869     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000870     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000871     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000872     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000873     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000874     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000875     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000876     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000877     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000878     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000879     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000880     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000881     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000882     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000883     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000884     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000885     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000886     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000887     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000888     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000889     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000890     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000891     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000892     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000893     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000894     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000895     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000896     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000897     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000898     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000899     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000900     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000901     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000902     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000903     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000904     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000905     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000906     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000907     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000908     0.0000001069      3.49      6.51      3.25
```

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   SRCPARAM L0000909     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000910     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000911     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000912     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000913     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000914     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000915     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000916     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000917     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000918     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000919     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000920     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000921     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000922     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000923     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000924     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000925     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000926     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000927     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000928     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000929     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000930     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000931     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000932     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000933     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000934     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000935     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000936     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000937     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000938     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000939     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000940     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000941     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000942     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000943     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000944     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000945     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000946     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000947     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000948     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000949     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000950     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000951     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000952     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000953     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000954     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000955     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000956     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000957     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000958     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000959     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000960     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000961     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000962     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000963     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000964     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000965     0.0000001069      3.49      6.51      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
```

```
**
RE STARTING
   INCLUDED "14073 Ops.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ELSI_V9_ADJU\ELSI_v9.SFC
   PROFFILE ELSI_V9_ADJU\ELSI_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 406.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "14073 Ops.AD\AN00GALL.PLT" 31
   SUMMFILE "14073 Ops.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: 1/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery Village\14073 Ops\14073 Ops.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery Village\14073 O
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14073 Ops.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC 1A1B Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.443E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484218.775, 3718921.277, 477.22, 3.49, 4.00
** 484244.954, 3718921.277, 476.16, 3.49, 4.00
** ------------------------------------------------------------------------
   LOCATION L0000493     VOLUME   484223.070 3718921.277 476.58
   LOCATION L0000494     VOLUME   484231.660 3718921.277 476.30
   LOCATION L0000495     VOLUME   484240.250 3718921.277 476.01
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC 2A2B Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.84E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484395.648, 3718894.487, 470.38, 3.49, 4.00
```

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** 484429.494, 3718894.088, 469.13, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000496     VOLUME   484399.943 3718894.436 469.82
   LOCATION L0000497     VOLUME   484408.532 3718894.335 469.47
   LOCATION L0000498     VOLUME   484417.121 3718894.234 469.12
   LOCATION L0000499     VOLUME   484425.711 3718894.133 469.00
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC 2C2D Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.704E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484394.652, 3718846.903, 469.02, 3.49, 4.00
** 484428.498, 3718846.505, 469.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000500     VOLUME   484398.947 3718846.853 469.00
   LOCATION L0000501     VOLUME   484407.536 3718846.752 469.00
   LOCATION L0000502     VOLUME   484416.126 3718846.650 469.00
   LOCATION L0000503     VOLUME   484424.715 3718846.549 469.00
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC 3A3B Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.366E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484484.244, 3718983.282, 467.84, 3.49, 4.00
** 484485.041, 3719000.803, 467.90, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000504     VOLUME   484484.440 3718987.573 467.79
   LOCATION L0000505     VOLUME   484484.830 3718996.154 467.67
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC 4A4B Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.342E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484491.014, 3719105.725, 464.67, 3.49, 4.00
** 484491.810, 3719123.245, 464.76, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000506     VOLUME   484491.209 3719110.015 464.50
   LOCATION L0000507     VOLUME   484491.599 3719118.597 464.70
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC 1A1B Onsite
** PREFIX
** Length of Side = 8.59
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```
** Configuration = Adjacent
** Emission Rate = 4.033E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484151.434, 3718897.591, 480.86, 3.49, 4.00
** 484256.373, 3718897.591, 475.05, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000508     VOLUME   484155.729 3718897.591 480.34
   LOCATION L0000509     VOLUME   484164.319 3718897.591 479.77
   LOCATION L0000510     VOLUME   484172.909 3718897.591 479.19
   LOCATION L0000511     VOLUME   484181.499 3718897.591 478.59
   LOCATION L0000512     VOLUME   484190.089 3718897.591 477.81
   LOCATION L0000513     VOLUME   484198.679 3718897.591 477.03
   LOCATION L0000514     VOLUME   484207.269 3718897.591 476.25
   LOCATION L0000515     VOLUME   484215.859 3718897.591 475.81
   LOCATION L0000516     VOLUME   484224.449 3718897.591 475.52
   LOCATION L0000517     VOLUME   484233.039 3718897.591 475.23
   LOCATION L0000518     VOLUME   484241.629 3718897.591 474.98
   LOCATION L0000519     VOLUME   484250.219 3718897.591 474.90
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC 2A2B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.914E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 8
** 484509.032, 3718977.103, 467.74, 3.49, 4.00
** 484459.749, 3718976.779, 468.91, 3.49, 4.00
** 484451.319, 3718972.240, 469.03, 3.49, 4.00
** 484441.268, 3718966.079, 469.22, 3.49, 4.00
** 484426.353, 3718964.782, 470.97, 3.49, 4.00
** 484345.943, 3718965.755, 475.92, 3.49, 4.00
** 484343.998, 3718870.431, 471.61, 3.49, 4.00
** 484436.728, 3718869.458, 469.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000520     VOLUME   484504.737 3718977.075 467.39
   LOCATION L0000521     VOLUME   484496.147 3718977.019 467.60
   LOCATION L0000522     VOLUME   484487.558 3718976.962 467.82
   LOCATION L0000523     VOLUME   484478.968 3718976.905 468.04
   LOCATION L0000524     VOLUME   484470.378 3718976.849 468.32
   LOCATION L0000525     VOLUME   484461.788 3718976.792 468.61
   LOCATION L0000526     VOLUME   484453.981 3718973.673 468.87
   LOCATION L0000527     VOLUME   484446.573 3718969.331 469.24
   LOCATION L0000528     VOLUME   484438.909 3718965.874 469.74
   LOCATION L0000529     VOLUME   484430.351 3718965.130 470.29
   LOCATION L0000530     VOLUME   484421.777 3718964.838 470.85
   LOCATION L0000531     VOLUME   484413.187 3718964.942 472.10
   LOCATION L0000532     VOLUME   484404.598 3718965.046 473.52
   LOCATION L0000533     VOLUME   484396.009 3718965.150 474.95
   LOCATION L0000534     VOLUME   484387.419 3718965.253 475.95
   LOCATION L0000535     VOLUME   484378.830 3718965.357 475.97
   LOCATION L0000536     VOLUME   484370.241 3718965.461 475.98
   LOCATION L0000537     VOLUME   484361.651 3718965.565 475.98
   LOCATION L0000538     VOLUME   484353.062 3718965.669 475.99
   LOCATION L0000539     VOLUME   484345.913 3718964.284 475.94
   LOCATION L0000540     VOLUME   484345.738 3718955.696 475.66
   LOCATION L0000541     VOLUME   484345.563 3718947.108 475.37
   LOCATION L0000542     VOLUME   484345.388 3718938.520 475.08
   LOCATION L0000543     VOLUME   484345.212 3718929.932 474.70
   LOCATION L0000544     VOLUME   484345.037 3718921.343 474.27
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   LOCATION L0000545     VOLUME   484344.862 3718912.755 473.84
   LOCATION L0000546     VOLUME   484344.686 3718904.167 473.39
   LOCATION L0000547     VOLUME   484344.511 3718895.579 472.82
   LOCATION L0000548     VOLUME   484344.336 3718886.991 472.26
   LOCATION L0000549     VOLUME   484344.161 3718878.402 471.69
   LOCATION L0000550     VOLUME   484344.615 3718870.425 471.33
   LOCATION L0000551     VOLUME   484353.204 3718870.334 471.04
   LOCATION L0000552     VOLUME   484361.794 3718870.244 470.70
   LOCATION L0000553     VOLUME   484370.384 3718870.154 470.18
   LOCATION L0000554     VOLUME   484378.973 3718870.064 469.66
   LOCATION L0000555     VOLUME   484387.563 3718869.974 469.15
   LOCATION L0000556     VOLUME   484396.152 3718869.884 469.00
   LOCATION L0000557     VOLUME   484404.742 3718869.794 469.00
   LOCATION L0000558     VOLUME   484413.331 3718869.704 469.00
   LOCATION L0000559     VOLUME   484421.921 3718869.614 469.00
   LOCATION L0000560     VOLUME   484430.510 3718869.524 469.00
** End of LINE VOLUME Source ID = SLINE7
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC 2C2D Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.592E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 484396.600, 3718870.414, 469.08, 3.49, 4.00
** 484484.468, 3718869.441, 469.00, 3.49, 4.00
** 484482.199, 3718795.515, 469.00, 3.49, 4.00
** 484502.950, 3718794.867, 469.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000561     VOLUME   484400.894 3718870.367 469.00
   LOCATION L0000562     VOLUME   484409.484 3718870.272 469.00
   LOCATION L0000563     VOLUME   484418.073 3718870.176 469.00
   LOCATION L0000564     VOLUME   484426.663 3718870.081 469.00
   LOCATION L0000565     VOLUME   484435.252 3718869.986 469.00
   LOCATION L0000566     VOLUME   484443.842 3718869.891 469.00
   LOCATION L0000567     VOLUME   484452.431 3718869.796 469.00
   LOCATION L0000568     VOLUME   484461.021 3718869.701 469.00
   LOCATION L0000569     VOLUME   484469.610 3718869.606 469.00
   LOCATION L0000570     VOLUME   484478.200 3718869.511 469.00
   LOCATION L0000571     VOLUME   484484.397 3718867.122 469.00
   LOCATION L0000572     VOLUME   484484.133 3718858.536 469.00
   LOCATION L0000573     VOLUME   484483.870 3718849.950 469.00
   LOCATION L0000574     VOLUME   484483.606 3718841.364 468.98
   LOCATION L0000575     VOLUME   484483.343 3718832.778 468.95
   LOCATION L0000576     VOLUME   484483.079 3718824.192 468.93
   LOCATION L0000577     VOLUME   484482.815 3718815.606 468.91
   LOCATION L0000578     VOLUME   484482.552 3718807.020 468.94
   LOCATION L0000579     VOLUME   484482.288 3718798.434 468.97
   LOCATION L0000580     VOLUME   484487.866 3718795.338 468.92
   LOCATION L0000581     VOLUME   484496.451 3718795.070 468.83
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC 3A3B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.079E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
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** 484461.992, 3718999.520, 468.88, 3.49, 4.00
** 484462.191, 3718976.024, 468.82, 3.49, 4.00
** 484509.384, 3718977.019, 467.74, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000582     VOLUME   484462.029 3718995.226 468.60
   LOCATION L0000583     VOLUME   484462.101 3718986.636 468.60
   LOCATION L0000584     VOLUME   484462.174 3718978.046 468.59
   LOCATION L0000585     VOLUME   484468.757 3718976.162 468.38
   LOCATION L0000586     VOLUME   484477.345 3718976.343 468.09
   LOCATION L0000587     VOLUME   484485.933 3718976.525 467.86
   LOCATION L0000588     VOLUME   484494.521 3718976.706 467.65
   LOCATION L0000589     VOLUME   484503.110 3718976.887 467.44
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC 4A4B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.235E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484467.552, 3719121.585, 465.79, 3.49, 4.00
** 484467.277, 3719086.031, 465.17, 3.49, 4.00
** 484514.130, 3719085.756, 463.96, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000590     VOLUME   484467.519 3719117.290 465.88
   LOCATION L0000591     VOLUME   484467.452 3719108.700 465.59
   LOCATION L0000592     VOLUME   484467.386 3719100.111 465.31
   LOCATION L0000593     VOLUME   484467.319 3719091.521 465.03
   LOCATION L0000594     VOLUME   484470.377 3719086.013 464.64
   LOCATION L0000595     VOLUME   484478.967 3719085.963 464.07
   LOCATION L0000596     VOLUME   484487.557 3719085.912 464.00
   LOCATION L0000597     VOLUME   484496.146 3719085.862 464.00
   LOCATION L0000598     VOLUME   484504.736 3719085.811 463.99
   LOCATION L0000599     VOLUME   484513.326 3719085.760 463.88
** End of LINE VOLUME Source ID = SLINE10
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC 1A1B Antelope Offsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.418E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 12
** 484139.332, 3718898.546, 481.64, 3.49, 4.00
** 484134.468, 3718788.277, 479.08, 3.49, 4.00
** 484124.089, 3718558.009, 474.86, 3.49, 4.00
** 484121.495, 3718434.767, 472.94, 3.49, 4.00
** 484180.521, 3718432.497, 471.00, 3.49, 4.00
** 484375.114, 3718432.497, 468.00, 3.49, 4.00
** 484419.221, 3718432.173, 468.04, 3.49, 4.00
** 484439.654, 3718430.551, 468.69, 3.49, 4.00
** 484451.329, 3718421.794, 468.95, 3.49, 4.00
** 484455.545, 3718410.119, 468.48, 3.49, 4.00
** 484456.843, 3718392.930, 467.94, 3.49, 4.00
** 484456.194, 3718370.876, 466.87, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000600     VOLUME   484139.143 3718894.255 481.19
   LOCATION L0000601     VOLUME   484138.764 3718885.674 480.82
   LOCATION L0000602     VOLUME   484138.386 3718877.092 480.44
```

LOCATION L0000603 VOLUME 484138.007 3718868.510 480.25
LOCATION L0000604 VOLUME 484137.629 3718859.929 480.10
LOCATION L0000605 VOLUME 484137.250 3718851.347 479.95
LOCATION L0000606 VOLUME 484136.871 3718842.765 479.77
LOCATION L0000607 VOLUME 484136.493 3718834.184 479.51
LOCATION L0000608 VOLUME 484136.114 3718825.602 479.25
LOCATION L0000609 VOLUME 484135.736 3718817.020 478.99
LOCATION L0000610 VOLUME 484135.357 3718808.439 478.98
LOCATION L0000611 VOLUME 484134.978 3718799.857 479.00
LOCATION L0000612 VOLUME 484134.600 3718791.276 479.03
LOCATION L0000613 VOLUME 484134.216 3718782.694 478.83
LOCATION L0000614 VOLUME 484133.829 3718774.113 478.29
LOCATION L0000615 VOLUME 484133.442 3718765.532 477.74
LOCATION L0000616 VOLUME 484133.056 3718756.950 477.19
LOCATION L0000617 VOLUME 484132.669 3718748.369 476.75
LOCATION L0000618 VOLUME 484132.282 3718739.788 476.32
LOCATION L0000619 VOLUME 484131.895 3718731.206 475.88
LOCATION L0000620 VOLUME 484131.509 3718722.625 475.62
LOCATION L0000621 VOLUME 484131.122 3718714.044 475.63
LOCATION L0000622 VOLUME 484130.735 3718705.463 475.64
LOCATION L0000623 VOLUME 484130.348 3718696.881 475.66
LOCATION L0000624 VOLUME 484129.962 3718688.300 475.67
LOCATION L0000625 VOLUME 484129.575 3718679.719 475.68
LOCATION L0000626 VOLUME 484129.188 3718671.137 475.69
LOCATION L0000627 VOLUME 484128.801 3718662.556 475.59
LOCATION L0000628 VOLUME 484128.415 3718653.975 475.32
LOCATION L0000629 VOLUME 484128.028 3718645.393 475.05
LOCATION L0000630 VOLUME 484127.641 3718636.812 474.77
LOCATION L0000631 VOLUME 484127.254 3718628.231 474.56
LOCATION L0000632 VOLUME 484126.867 3718619.650 474.35
LOCATION L0000633 VOLUME 484126.481 3718611.068 474.13
LOCATION L0000634 VOLUME 484126.094 3718602.487 474.00
LOCATION L0000635 VOLUME 484125.707 3718593.906 474.00
LOCATION L0000636 VOLUME 484125.320 3718585.324 474.00
LOCATION L0000637 VOLUME 484124.934 3718576.743 474.00
LOCATION L0000638 VOLUME 484124.547 3718568.162 474.22
LOCATION L0000639 VOLUME 484124.160 3718559.581 474.47
LOCATION L0000640 VOLUME 484123.942 3718550.994 474.72
LOCATION L0000641 VOLUME 484123.761 3718542.406 474.87
LOCATION L0000642 VOLUME 484123.580 3718533.818 474.88
LOCATION L0000643 VOLUME 484123.399 3718525.229 474.89
LOCATION L0000644 VOLUME 484123.218 3718516.641 474.89
LOCATION L0000645 VOLUME 484123.038 3718508.053 474.63
LOCATION L0000646 VOLUME 484122.857 3718499.465 474.35
LOCATION L0000647 VOLUME 484122.676 3718490.877 474.07
LOCATION L0000648 VOLUME 484122.495 3718482.289 473.91
LOCATION L0000649 VOLUME 484122.314 3718473.701 473.89
LOCATION L0000650 VOLUME 484122.134 3718465.113 473.88
LOCATION L0000651 VOLUME 484121.953 3718456.525 473.87
LOCATION L0000652 VOLUME 484121.772 3718447.937 473.63
LOCATION L0000653 VOLUME 484121.591 3718439.348 473.37
LOCATION L0000654 VOLUME 484125.499 3718434.613 473.05
LOCATION L0000655 VOLUME 484134.083 3718434.283 472.68
LOCATION L0000656 VOLUME 484142.667 3718433.953 472.31
LOCATION L0000657 VOLUME 484151.250 3718433.623 471.97
LOCATION L0000658 VOLUME 484159.834 3718433.293 471.75
LOCATION L0000659 VOLUME 484168.418 3718432.963 471.53
LOCATION L0000660 VOLUME 484177.001 3718432.632 471.30
LOCATION L0000661 VOLUME 484185.589 3718432.497 470.99
LOCATION L0000662 VOLUME 484194.179 3718432.497 470.64
LOCATION L0000663 VOLUME 484202.769 3718432.497 470.29
LOCATION L0000664 VOLUME 484211.359 3718432.497 470.00
LOCATION L0000665 VOLUME 484219.949 3718432.497 470.00
LOCATION L0000666 VOLUME 484228.539 3718432.497 470.00
LOCATION L0000667 VOLUME 484237.129 3718432.497 470.00
LOCATION L0000668 VOLUME 484245.719 3718432.497 469.81

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   LOCATION L0000669     VOLUME   484254.309 3718432.497 469.52
   LOCATION L0000670     VOLUME   484262.899 3718432.497 469.24
   LOCATION L0000671     VOLUME   484271.489 3718432.497 469.00
   LOCATION L0000672     VOLUME   484280.079 3718432.497 469.00
   LOCATION L0000673     VOLUME   484288.669 3718432.497 469.00
   LOCATION L0000674     VOLUME   484297.259 3718432.497 469.00
   LOCATION L0000675     VOLUME   484305.849 3718432.497 468.85
   LOCATION L0000676     VOLUME   484314.439 3718432.497 468.62
   LOCATION L0000677     VOLUME   484323.029 3718432.497 468.40
   LOCATION L0000678     VOLUME   484331.619 3718432.497 468.21
   LOCATION L0000679     VOLUME   484340.209 3718432.497 468.14
   LOCATION L0000680     VOLUME   484348.799 3718432.497 468.08
   LOCATION L0000681     VOLUME   484357.389 3718432.497 468.02
   LOCATION L0000682     VOLUME   484365.979 3718432.497 468.00
   LOCATION L0000683     VOLUME   484374.569 3718432.497 468.00
   LOCATION L0000684     VOLUME   484383.159 3718432.438 468.00
   LOCATION L0000685     VOLUME   484391.748 3718432.375 468.00
   LOCATION L0000686     VOLUME   484400.338 3718432.312 468.00
   LOCATION L0000687     VOLUME   484408.928 3718432.248 468.00
   LOCATION L0000688     VOLUME   484417.518 3718432.185 468.00
   LOCATION L0000689     VOLUME   484426.086 3718431.628 468.20
   LOCATION L0000690     VOLUME   484434.649 3718430.948 468.49
   LOCATION L0000691     VOLUME   484442.509 3718428.409 468.75
   LOCATION L0000692     VOLUME   484449.381 3718423.255 468.89
   LOCATION L0000693     VOLUME   484453.420 3718416.005 468.67
   LOCATION L0000694     VOLUME   484455.721 3718407.794 468.39
   LOCATION L0000695     VOLUME   484456.367 3718399.228 468.11
   LOCATION L0000696     VOLUME   484456.776 3718390.657 467.78
   LOCATION L0000697     VOLUME   484456.523 3718382.071 467.44
   LOCATION L0000698     VOLUME   484456.271 3718373.484 467.09
** End of LINE VOLUME Source ID = SLINE11
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC 1A1B Offsite Linnel
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 7.03E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 7
** 484457.167, 3718361.146, 466.81, 3.49, 6.51
** 484632.949, 3718359.849, 461.98, 3.49, 6.51
** 484653.381, 3718360.498, 460.93, 3.49, 6.51
** 484669.921, 3718362.768, 460.60, 3.49, 6.51
** 484788.623, 3718376.714, 457.93, 3.49, 6.51
** 484820.731, 3718379.633, 457.63, 3.49, 6.51
** 484876.838, 3718380.281, 456.64, 3.49, 6.51
** ----------------------------------------------------------------------
   LOCATION L0000699     VOLUME   484464.167 3718361.095 466.44
   LOCATION L0000700     VOLUME   484478.166 3718360.991 466.05
   LOCATION L0000701     VOLUME   484492.166 3718360.888 465.93
   LOCATION L0000702     VOLUME   484506.166 3718360.785 465.85
   LOCATION L0000703     VOLUME   484520.165 3718360.681 465.48
   LOCATION L0000704     VOLUME   484534.165 3718360.578 465.01
   LOCATION L0000705     VOLUME   484548.164 3718360.475 464.59
   LOCATION L0000706     VOLUME   484562.164 3718360.371 464.21
   LOCATION L0000707     VOLUME   484576.164 3718360.268 463.80
   LOCATION L0000708     VOLUME   484590.163 3718360.165 463.33
   LOCATION L0000709     VOLUME   484604.163 3718360.062 462.86
   LOCATION L0000710     VOLUME   484618.163 3718359.958 462.40
   LOCATION L0000711     VOLUME   484632.162 3718359.855 461.91
   LOCATION L0000712     VOLUME   484646.155 3718360.268 461.36
   LOCATION L0000713     VOLUME   484660.089 3718361.418 460.84
   LOCATION L0000714     VOLUME   484673.969 3718363.244 459.98
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   LOCATION L0000715     VOLUME   484687.873 3718364.877 459.11
   LOCATION L0000716     VOLUME   484701.778 3718366.511 458.64
   LOCATION L0000717     VOLUME   484715.682 3718368.144 458.23
   LOCATION L0000718     VOLUME   484729.586 3718369.778 458.09
   LOCATION L0000719     VOLUME   484743.491 3718371.411 458.04
   LOCATION L0000720     VOLUME   484757.395 3718373.045 458.06
   LOCATION L0000721     VOLUME   484771.299 3718374.679 458.21
   LOCATION L0000722     VOLUME   484785.204 3718376.312 458.28
   LOCATION L0000723     VOLUME   484799.137 3718377.670 458.14
   LOCATION L0000724     VOLUME   484813.079 3718378.937 457.94
   LOCATION L0000725     VOLUME   484827.048 3718379.706 457.69
   LOCATION L0000726     VOLUME   484841.047 3718379.868 457.43
   LOCATION L0000727     VOLUME   484855.046 3718380.029 456.97
   LOCATION L0000728     VOLUME   484869.045 3718380.191 456.51
** End of LINE VOLUME Source ID = SLINE12
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC 4A4B Offsite Warm Springs
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 7.027E-08
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 484529.828, 3719083.722, 463.22, 3.49, 6.51
** 484527.584, 3719049.605, 463.24, 3.49, 6.51
** 484525.788, 3719013.244, 465.31, 3.49, 6.51
** 484523.993, 3718975.985, 466.84, 3.49, 6.51
** ----------------------------------------------------------------------
   LOCATION L0000729     VOLUME   484529.369 3719076.737 463.25
   LOCATION L0000730     VOLUME   484528.450 3719062.768 463.09
   LOCATION L0000731     VOLUME   484527.544 3719048.797 463.48
   LOCATION L0000732     VOLUME   484526.854 3719034.814 464.41
   LOCATION L0000733     VOLUME   484526.163 3719020.831 465.08
   LOCATION L0000734     VOLUME   484525.480 3719006.848 465.31
   LOCATION L0000735     VOLUME   484524.806 3718992.864 465.61
   LOCATION L0000736     VOLUME   484524.132 3718978.880 466.13
** End of LINE VOLUME Source ID = SLINE13
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC 4A4B 3A3B Offsite Warm Springs
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 2.451E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484523.544, 3718977.332, 466.89, 3.49, 6.51
** 484514.117, 3718791.036, 469.00, 3.49, 6.51
** ----------------------------------------------------------------------
   LOCATION L0000737     VOLUME   484523.190 3718970.341 466.52
   LOCATION L0000738     VOLUME   484522.483 3718956.359 467.29
   LOCATION L0000739     VOLUME   484521.775 3718942.376 468.06
   LOCATION L0000740     VOLUME   484521.067 3718928.394 468.53
   LOCATION L0000741     VOLUME   484520.360 3718914.412 468.82
   LOCATION L0000742     VOLUME   484519.652 3718900.430 469.00
   LOCATION L0000743     VOLUME   484518.945 3718886.448 469.00
   LOCATION L0000744     VOLUME   484518.237 3718872.466 469.00
   LOCATION L0000745     VOLUME   484517.530 3718858.484 469.00
   LOCATION L0000746     VOLUME   484516.822 3718844.502 468.95
   LOCATION L0000747     VOLUME   484516.115 3718830.520 468.48
   LOCATION L0000748     VOLUME   484515.407 3718816.537 468.02
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   LOCATION L0000749     VOLUME   484514.700 3718802.555 468.45
** End of LINE VOLUME Source ID = SLINE14
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC 2-4 Running Rabbit Offsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.234E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484514.117, 3718780.711, 469.00, 3.49, 4.00
** 484593.573, 3718779.364, 467.28, 3.49, 4.00
** 484889.851, 3718774.875, 457.54, 3.49, 4.00
** ------------------------------------------------------------------
   LOCATION L0000750     VOLUME   484518.411 3718780.638 469.00
   LOCATION L0000751     VOLUME   484527.000 3718780.493 469.00
   LOCATION L0000752     VOLUME   484535.589 3718780.347 469.00
   LOCATION L0000753     VOLUME   484544.177 3718780.202 469.00
   LOCATION L0000754     VOLUME   484552.766 3718780.056 469.00
   LOCATION L0000755     VOLUME   484561.355 3718779.910 469.00
   LOCATION L0000756     VOLUME   484569.944 3718779.765 469.00
   LOCATION L0000757     VOLUME   484578.533 3718779.619 468.49
   LOCATION L0000758     VOLUME   484587.121 3718779.474 467.98
   LOCATION L0000759     VOLUME   484595.710 3718779.332 467.48
   LOCATION L0000760     VOLUME   484604.299 3718779.202 467.05
   LOCATION L0000761     VOLUME   484612.888 3718779.072 466.70
   LOCATION L0000762     VOLUME   484621.477 3718778.942 466.35
   LOCATION L0000763     VOLUME   484630.066 3718778.811 466.00
   LOCATION L0000764     VOLUME   484638.655 3718778.681 465.71
   LOCATION L0000765     VOLUME   484647.244 3718778.551 465.43
   LOCATION L0000766     VOLUME   484655.833 3718778.421 465.14
   LOCATION L0000767     VOLUME   484664.422 3718778.291 464.85
   LOCATION L0000768     VOLUME   484673.011 3718778.161 464.57
   LOCATION L0000769     VOLUME   484681.600 3718778.031 464.28
   LOCATION L0000770     VOLUME   484690.189 3718777.901 464.00
   LOCATION L0000771     VOLUME   484698.778 3718777.770 464.00
   LOCATION L0000772     VOLUME   484707.367 3718777.640 464.00
   LOCATION L0000773     VOLUME   484715.956 3718777.510 464.00
   LOCATION L0000774     VOLUME   484724.545 3718777.380 464.00
   LOCATION L0000775     VOLUME   484733.134 3718777.250 464.00
   LOCATION L0000776     VOLUME   484741.723 3718777.120 464.00
   LOCATION L0000777     VOLUME   484750.312 3718776.990 464.00
   LOCATION L0000778     VOLUME   484758.901 3718776.859 464.00
   LOCATION L0000779     VOLUME   484767.490 3718776.729 464.00
   LOCATION L0000780     VOLUME   484776.079 3718776.599 464.00
   LOCATION L0000781     VOLUME   484784.668 3718776.469 463.85
   LOCATION L0000782     VOLUME   484793.257 3718776.339 463.56
   LOCATION L0000783     VOLUME   484801.846 3718776.209 463.27
   LOCATION L0000784     VOLUME   484810.435 3718776.079 462.96
   LOCATION L0000785     VOLUME   484819.025 3718775.948 462.10
   LOCATION L0000786     VOLUME   484827.614 3718775.818 461.24
   LOCATION L0000787     VOLUME   484836.203 3718775.688 460.38
   LOCATION L0000788     VOLUME   484844.792 3718775.558 459.68
   LOCATION L0000789     VOLUME   484853.381 3718775.428 459.11
   LOCATION L0000790     VOLUME   484861.970 3718775.298 458.54
   LOCATION L0000791     VOLUME   484870.559 3718775.168 457.98
   LOCATION L0000792     VOLUME   484879.148 3718775.038 457.70
   LOCATION L0000793     VOLUME   484887.737 3718774.907 457.41
** End of LINE VOLUME Source ID = SLINE15
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC 2-4 Offsite Whitewood
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** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 2.353E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484902.420, 3718775.324, 457.07, 3.49, 6.51
** 484886.708, 3718379.839, 456.55, 3.49, 6.51
** ----------------------------------------------------------------------
   LOCATION L0000794     VOLUME   484902.142 3718768.330 457.00
   LOCATION L0000795     VOLUME   484901.586 3718754.341 457.05
   LOCATION L0000796     VOLUME   484901.031 3718740.352 457.50
   LOCATION L0000797     VOLUME   484900.475 3718726.363 457.97
   LOCATION L0000798     VOLUME   484899.919 3718712.374 458.00
   LOCATION L0000799     VOLUME   484899.363 3718698.385 458.02
   LOCATION L0000800     VOLUME   484898.808 3718684.396 458.09
   LOCATION L0000801     VOLUME   484898.252 3718670.407 458.21
   LOCATION L0000802     VOLUME   484897.696 3718656.418 459.22
   LOCATION L0000803     VOLUME   484897.140 3718642.429 460.59
   LOCATION L0000804     VOLUME   484896.585 3718628.440 461.23
   LOCATION L0000805     VOLUME   484896.029 3718614.451 461.27
   LOCATION L0000806     VOLUME   484895.473 3718600.462 461.12
   LOCATION L0000807     VOLUME   484894.917 3718586.473 460.69
   LOCATION L0000808     VOLUME   484894.362 3718572.484 460.14
   LOCATION L0000809     VOLUME   484893.806 3718558.495 459.25
   LOCATION L0000810     VOLUME   484893.250 3718544.506 458.43
   LOCATION L0000811     VOLUME   484892.694 3718530.517 458.24
   LOCATION L0000812     VOLUME   484892.139 3718516.528 458.01
   LOCATION L0000813     VOLUME   484891.583 3718502.539 457.68
   LOCATION L0000814     VOLUME   484891.027 3718488.550 457.36
   LOCATION L0000815     VOLUME   484890.471 3718474.562 457.58
   LOCATION L0000816     VOLUME   484889.916 3718460.573 457.90
   LOCATION L0000817     VOLUME   484889.360 3718446.584 458.00
   LOCATION L0000818     VOLUME   484888.804 3718432.595 458.00
   LOCATION L0000819     VOLUME   484888.248 3718418.606 457.75
   LOCATION L0000820     VOLUME   484887.693 3718404.617 457.29
   LOCATION L0000821     VOLUME   484887.137 3718390.628 456.92
** End of LINE VOLUME Source ID = SLINE16
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Offsite Clinton Keith 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00001539
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 15
** 484886.708, 3718379.839, 456.55, 3.49, 6.51
** 484887.157, 3718180.974, 453.40, 3.49, 6.51
** 484890.299, 3717905.346, 454.11, 3.49, 6.51
** 484892.544, 3717675.057, 451.19, 3.49, 6.51
** 484895.237, 3717577.196, 449.19, 3.49, 6.51
** 484691.434, 3717579.440, 462.18, 3.49, 6.51
** 484367.774, 3717580.338, 462.00, 3.49, 6.51
** 484196.292, 3717582.583, 462.90, 3.49, 6.51
** 484098.879, 3717583.480, 464.75, 3.49, 6.51
** 484060.722, 3717582.583, 465.92, 3.49, 6.51
** 483961.963, 3717608.619, 466.99, 3.49, 6.51
** 483835.372, 3717649.918, 459.36, 3.49, 6.51
** 483785.543, 3717666.079, 457.06, 3.49, 6.51
** 483722.697, 3717683.137, 458.17, 3.49, 6.51
** 483692.171, 3717688.524, 460.32, 3.49, 6.51
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LOCATION L0000822 VOLUME 484886.724 3718372.839 456.66
LOCATION L0000823 VOLUME 484886.756 3718358.839 456.42
LOCATION L0000824 VOLUME 484886.787 3718344.839 456.16
LOCATION L0000825 VOLUME 484886.819 3718330.839 456.00
LOCATION L0000826 VOLUME 484886.850 3718316.839 456.00
LOCATION L0000827 VOLUME 484886.882 3718302.839 456.11
LOCATION L0000828 VOLUME 484886.914 3718288.839 456.57
LOCATION L0000829 VOLUME 484886.945 3718274.839 457.00
LOCATION L0000830 VOLUME 484886.977 3718260.839 457.00
LOCATION L0000831 VOLUME 484887.008 3718246.839 457.00
LOCATION L0000832 VOLUME 484887.040 3718232.839 456.50
LOCATION L0000833 VOLUME 484887.072 3718218.839 455.97
LOCATION L0000834 VOLUME 484887.103 3718204.839 454.96
LOCATION L0000835 VOLUME 484887.135 3718190.839 453.82
LOCATION L0000836 VOLUME 484887.204 3718176.839 453.12
LOCATION L0000837 VOLUME 484887.364 3718162.840 452.65
LOCATION L0000838 VOLUME 484887.523 3718148.841 452.75
LOCATION L0000839 VOLUME 484887.683 3718134.842 453.41
LOCATION L0000840 VOLUME 484887.843 3718120.843 454.19
LOCATION L0000841 VOLUME 484888.002 3718106.844 455.21
LOCATION L0000842 VOLUME 484888.162 3718092.845 456.04
LOCATION L0000843 VOLUME 484888.321 3718078.846 456.22
LOCATION L0000844 VOLUME 484888.481 3718064.847 456.38
LOCATION L0000845 VOLUME 484888.641 3718050.848 456.38
LOCATION L0000846 VOLUME 484888.800 3718036.848 456.37
LOCATION L0000847 VOLUME 484888.960 3718022.849 456.37
LOCATION L0000848 VOLUME 484889.119 3718008.850 456.36
LOCATION L0000849 VOLUME 484889.279 3717994.851 456.23
LOCATION L0000850 VOLUME 484889.439 3717980.852 456.06
LOCATION L0000851 VOLUME 484889.598 3717966.853 455.80
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LOCATION L0000855 VOLUME 484890.237 3717910.857 454.48
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LOCATION L0000859 VOLUME 484890.792 3717854.859 452.30
LOCATION L0000860 VOLUME 484890.928 3717840.860 452.15
LOCATION L0000861 VOLUME 484891.064 3717826.861 452.01
LOCATION L0000862 VOLUME 484891.201 3717812.861 451.56
LOCATION L0000863 VOLUME 484891.337 3717798.862 451.10
LOCATION L0000864 VOLUME 484891.474 3717784.863 450.73
LOCATION L0000865 VOLUME 484891.610 3717770.863 450.40
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LOCATION L0000867 VOLUME 484891.883 3717742.865 452.02
LOCATION L0000868 VOLUME 484892.020 3717728.865 452.66
LOCATION L0000869 VOLUME 484892.156 3717714.866 452.89
LOCATION L0000870 VOLUME 484892.292 3717700.867 452.82
LOCATION L0000871 VOLUME 484892.429 3717686.867 452.21
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LOCATION L0000875 VOLUME 484893.760 3717630.885 449.81
LOCATION L0000876 VOLUME 484894.145 3717616.890 449.23
LOCATION L0000877 VOLUME 484894.530 3717602.895 449.26
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LOCATION L0000885 VOLUME 484808.952 3717578.146 456.13
LOCATION L0000886 VOLUME 484794.953 3717578.300 457.89
LOCATION L0000887 VOLUME 484780.954 3717578.454 459.64

LOCATION L0000888 VOLUME 484766.954 3717578.609 461.27
LOCATION L0000889 VOLUME 484752.955 3717578.763 462.90
LOCATION L0000890 VOLUME 484738.956 3717578.917 463.24
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LOCATION L0000893 VOLUME 484696.959 3717579.380 462.62
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LOCATION L0000897 VOLUME 484640.959 3717579.580 462.21
LOCATION L0000898 VOLUME 484626.959 3717579.619 462.11
LOCATION L0000899 VOLUME 484612.959 3717579.658 461.64
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LOCATION L0000922 VOLUME 484290.967 3717581.343 462.00
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LOCATION L0000927 VOLUME 484220.973 3717582.260 462.88
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LOCATION L0000931 VOLUME 484164.976 3717582.871 462.90
LOCATION L0000932 VOLUME 484150.977 3717583.000 462.90
LOCATION L0000933 VOLUME 484136.977 3717583.129 463.30
LOCATION L0000934 VOLUME 484122.978 3717583.258 463.73
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LOCATION L0000943 VOLUME 483999.095 3717598.830 465.73
LOCATION L0000944 VOLUME 483985.558 3717602.399 466.41
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LOCATION L0000949 VOLUME 483918.613 3717622.762 463.35
LOCATION L0000950 VOLUME 483905.303 3717627.104 462.79
LOCATION L0000951 VOLUME 483891.994 3717631.446 462.09
LOCATION L0000952 VOLUME 483878.684 3717635.788 461.28
LOCATION L0000953 VOLUME 483865.374 3717640.130 460.61

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   LOCATION L0000954     VOLUME   483852.065 3717644.473 460.07
   LOCATION L0000955     VOLUME   483838.755 3717648.815 459.59
   LOCATION L0000956     VOLUME   483825.440 3717653.140 458.99
   LOCATION L0000957     VOLUME   483812.123 3717657.459 458.19
   LOCATION L0000958     VOLUME   483798.806 3717661.778 457.43
   LOCATION L0000959     VOLUME   483785.488 3717666.094 457.00
   LOCATION L0000960     VOLUME   483771.977 3717669.761 457.00
   LOCATION L0000961     VOLUME   483758.465 3717673.429 457.05
   LOCATION L0000962     VOLUME   483744.954 3717677.096 457.56
   LOCATION L0000963     VOLUME   483731.443 3717680.763 458.26
   LOCATION L0000964     VOLUME   483717.835 3717683.995 459.34
   LOCATION L0000965     VOLUME   483704.048 3717686.428 460.43
** End of LINE VOLUME Source ID = SLINE17
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000493     0.000001148      3.49      4.00      3.25
   SRCPARAM L0000494     0.000001148      3.49      4.00      3.25
   SRCPARAM L0000495     0.000001148      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000496     0.00000121      3.49      4.00      3.25
   SRCPARAM L0000497     0.00000121      3.49      4.00      3.25
   SRCPARAM L0000498     0.00000121      3.49      4.00      3.25
   SRCPARAM L0000499     0.00000121      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0000500     0.000001176      3.49      4.00      3.25
   SRCPARAM L0000501     0.000001176      3.49      4.00      3.25
   SRCPARAM L0000502     0.000001176      3.49      4.00      3.25
   SRCPARAM L0000503     0.000001176      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0000504     0.000000683      3.49      4.00      3.25
   SRCPARAM L0000505     0.000000683      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0000506     0.000000671      3.49      4.00      3.25
   SRCPARAM L0000507     0.000000671      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0000508     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000509     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000510     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000511     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000512     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000513     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000514     0.00000003361      3.49      4.00      3.25
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   SRCPARAM L0000518     0.00000003361      3.49      4.00      3.25
   SRCPARAM L0000519     0.00000003361      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0000520     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000521     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000522     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000523     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000524     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000525     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000526     0.00000004668      3.49      4.00      3.25
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   SRCPARAM L0000531     0.00000004668      3.49      4.00      3.25
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   SRCPARAM L0000532     0.00000004668      3.49      4.00      3.25
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   SRCPARAM L0000542     0.00000004668      3.49      4.00      3.25
   SRCPARAM L0000543     0.00000004668      3.49      4.00      3.25
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   SRCPARAM L0000560     0.00000004668      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0000561     0.00000004568      3.49      4.00      3.25
   SRCPARAM L0000562     0.00000004568      3.49      4.00      3.25
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   SRCPARAM L0000581     0.00000004568      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0000582     0.00000001349      3.49      4.00      3.25
   SRCPARAM L0000583     0.00000001349      3.49      4.00      3.25
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** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0000590     0.00000001235      3.49      4.00      3.25
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   SRCPARAM L0000678     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000679     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000680     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000681     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000682     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000683     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000684     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000685     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000686     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000687     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000688     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000689     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000690     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000691     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000692     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000693     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000694     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000695     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000696     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000697     0.00000001432      3.49      4.00      3.25
   SRCPARAM L0000698     0.00000001432      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0000699     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000700     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000701     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000702     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000703     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000704     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000705     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000706     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000707     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000708     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000709     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000710     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000711     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000712     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000713     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000714     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000715     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000716     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000717     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000718     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000719     0.00000002343      3.49      6.51      3.25
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   SRCPARAM L0000720     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000721     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000722     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000723     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000724     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000725     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000726     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000727     0.00000002343      3.49      6.51      3.25
   SRCPARAM L0000728     0.00000002343      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0000729     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000730     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000731     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000732     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000733     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000734     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000735     0.000000008784      3.49      6.51      3.25
   SRCPARAM L0000736     0.000000008784      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0000737     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000738     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000739     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000740     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000741     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000742     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000743     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000744     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000745     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000746     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000747     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000748     0.00000001885      3.49      6.51      3.25
   SRCPARAM L0000749     0.00000001885      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0000750     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000751     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000752     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000753     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000754     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000755     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000756     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000757     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000758     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000759     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000760     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000761     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000762     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000763     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000764     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000765     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000766     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000767     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000768     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000769     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000770     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000771     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000772     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000773     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000774     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000775     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000776     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000777     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000778     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000779     0.00000005077      3.49      4.00      3.25
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   SRCPARAM L0000780     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000781     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000782     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000783     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000784     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000785     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000786     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000787     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000788     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000789     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000790     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000791     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000792     0.00000005077      3.49      4.00      3.25
   SRCPARAM L0000793     0.00000005077      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0000794     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000795     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000796     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000797     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000798     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000799     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000800     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000801     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000802     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000803     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000804     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000805     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000806     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000807     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000808     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000809     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000810     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000811     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000812     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000813     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000814     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000815     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000816     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000817     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000818     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000819     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000820     0.00000008404      3.49      6.51      3.25
   SRCPARAM L0000821     0.00000008404      3.49      6.51      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0000822     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000823     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000824     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000825     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000826     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000827     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000828     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000829     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000830     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000831     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000832     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000833     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000834     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000835     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000836     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000837     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000838     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000839     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000840     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000841     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000842     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000843     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000844     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000845     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000846     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000847     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000848     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000849     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000851     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000854     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000856     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000868     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000896     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000897     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000901     0.0000001069      3.49      6.51      3.25
SRCPARAM L0000902     0.0000001069      3.49      6.51      3.25
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SRCPARAM L0000907     0.0000001069      3.49      6.51      3.25
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   SRCPARAM L0000914     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000915     0.0000001069      3.49      6.51      3.25
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   SRCPARAM L0000961     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000962     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000963     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000964     0.0000001069      3.49      6.51      3.25
   SRCPARAM L0000965     0.0000001069      3.49      6.51      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
```

```
**
**
RE STARTING
   INCLUDED "14073 Ops.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ELSI_V9_ADJU\ELSI_v9.SFC
   PROFFILE ELSI_V9_ADJU\ELSI_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 406.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "14073 Ops.AD\AN00GALL.PLT" 31
   SUMMFILE "14073 Ops.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    1338       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    1338       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery
Village\14073 O ***        01/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:21:32

                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  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   473 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 Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes:    473 Source(s);       1 Source Group(s); and      99 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    473 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 ANNUAL Averages by Receptor
         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) =   406.00 ;  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 =      3.7 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14073
Ops.err
**File for Summary of Results:   14073
```

*** 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
L0000493	0	0.11480E-05	484223.1	3718921.3	476.6	3.49	4.00	3.25	YES
L0000494	0	0.11480E-05	484231.7	3718921.3	476.3	3.49	4.00	3.25	YES
L0000495	0	0.11480E-05	484240.2	3718921.3	476.0	3.49	4.00	3.25	YES
L0000496	0	0.12100E-05	484399.9	3718894.4	469.8	3.49	4.00	3.25	YES
L0000497	0	0.12100E-05	484408.5	3718894.3	469.5	3.49	4.00	3.25	YES
L0000498	0	0.12100E-05	484417.1	3718894.2	469.1	3.49	4.00	3.25	YES
L0000499	0	0.12100E-05	484425.7	3718894.1	469.0	3.49	4.00	3.25	YES
L0000500	0	0.11760E-05	484398.9	3718846.9	469.0	3.49	4.00	3.25	YES
L0000501	0	0.11760E-05	484407.5	3718846.8	469.0	3.49	4.00	3.25	YES
L0000502	0	0.11760E-05	484416.1	3718846.6	469.0	3.49	4.00	3.25	YES
L0000503	0	0.11760E-05	484424.7	3718846.5	469.0	3.49	4.00	3.25	YES
L0000504	0	0.68300E-06	484484.4	3718987.6	467.8	3.49	4.00	3.25	YES
L0000505	0	0.68300E-06	484484.8	3718996.2	467.7	3.49	4.00	3.25	YES
L0000506	0	0.67100E-06	484491.2	3719110.0	464.5	3.49	4.00	3.25	YES
L0000507	0	0.67100E-06	484491.6	3719118.6	464.7	3.49	4.00	3.25	YES
L0000508	0	0.33610E-07	484155.7	3718897.6	480.3	3.49	4.00	3.25	YES
L0000509	0	0.33610E-07	484164.3	3718897.6	479.8	3.49	4.00	3.25	YES
L0000510	0	0.33610E-07	484172.9	3718897.6	479.2	3.49	4.00	3.25	YES
L0000511	0	0.33610E-07	484181.5	3718897.6	478.6	3.49	4.00	3.25	YES
L0000512	0	0.33610E-07	484190.1	3718897.6	477.8	3.49	4.00	3.25	YES
L0000513	0	0.33610E-07	484198.7	3718897.6	477.0	3.49	4.00	3.25	YES
L0000514	0	0.33610E-07	484207.3	3718897.6	476.2	3.49	4.00	3.25	YES
L0000515	0	0.33610E-07	484215.9	3718897.6	475.8	3.49	4.00	3.25	

YES
L0000516 0 0.33610E-07 484224.4 3718897.6 475.5 3.49 4.00 3.25
YES
L0000517 0 0.33610E-07 484233.0 3718897.6 475.2 3.49 4.00 3.25
YES
L0000518 0 0.33610E-07 484241.6 3718897.6 475.0 3.49 4.00 3.25
YES
L0000519 0 0.33610E-07 484250.2 3718897.6 474.9 3.49 4.00 3.25
YES
L0000520 0 0.46680E-07 484504.7 3718977.1 467.4 3.49 4.00 3.25
YES
L0000521 0 0.46680E-07 484496.1 3718977.0 467.6 3.49 4.00 3.25
YES
L0000522 0 0.46680E-07 484487.6 3718977.0 467.8 3.49 4.00 3.25
YES
L0000523 0 0.46680E-07 484479.0 3718976.9 468.0 3.49 4.00 3.25
YES
L0000524 0 0.46680E-07 484470.4 3718976.8 468.3 3.49 4.00 3.25
YES
L0000525 0 0.46680E-07 484461.8 3718976.8 468.6 3.49 4.00 3.25
YES
L0000526 0 0.46680E-07 484454.0 3718973.7 468.9 3.49 4.00 3.25
YES
L0000527 0 0.46680E-07 484446.6 3718969.3 469.2 3.49 4.00 3.25
YES
L0000528 0 0.46680E-07 484438.9 3718965.9 469.7 3.49 4.00 3.25
YES
L0000529 0 0.46680E-07 484430.4 3718965.1 470.3 3.49 4.00 3.25
YES
L0000530 0 0.46680E-07 484421.8 3718964.8 470.9 3.49 4.00 3.25
YES
L0000531 0 0.46680E-07 484413.2 3718964.9 472.1 3.49 4.00 3.25
YES
L0000532 0 0.46680E-07 484404.6 3718965.0 473.5 3.49 4.00 3.25
YES

*** 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
L0000533	0	0.46680E-07	484396.0	3718965.1	474.9	3.49	4.00	3.25
YES								
L0000534	0	0.46680E-07	484387.4	3718965.3	475.9	3.49	4.00	3.25
YES								
L0000535	0	0.46680E-07	484378.8	3718965.4	476.0	3.49	4.00	3.25
YES								
L0000536	0	0.46680E-07	484370.2	3718965.5	476.0	3.49	4.00	3.25
YES								
L0000537	0	0.46680E-07	484361.7	3718965.6	476.0	3.49	4.00	3.25
YES								
L0000538	0	0.46680E-07	484353.1	3718965.7	476.0	3.49	4.00	3.25

YES								
L0000539	0	0.46680E-07	484345.9	3718964.3	475.9	3.49	4.00	3.25
YES								
L0000540	0	0.46680E-07	484345.7	3718955.7	475.7	3.49	4.00	3.25
YES								
L0000541	0	0.46680E-07	484345.6	3718947.1	475.4	3.49	4.00	3.25
YES								
L0000542	0	0.46680E-07	484345.4	3718938.5	475.1	3.49	4.00	3.25
YES								
L0000543	0	0.46680E-07	484345.2	3718929.9	474.7	3.49	4.00	3.25
YES								
L0000544	0	0.46680E-07	484345.0	3718921.3	474.3	3.49	4.00	3.25
YES								
L0000545	0	0.46680E-07	484344.9	3718912.8	473.8	3.49	4.00	3.25
YES								
L0000546	0	0.46680E-07	484344.7	3718904.2	473.4	3.49	4.00	3.25
YES								
L0000547	0	0.46680E-07	484344.5	3718895.6	472.8	3.49	4.00	3.25
YES								
L0000548	0	0.46680E-07	484344.3	3718887.0	472.3	3.49	4.00	3.25
YES								
L0000549	0	0.46680E-07	484344.2	3718878.4	471.7	3.49	4.00	3.25
YES								
L0000550	0	0.46680E-07	484344.6	3718870.4	471.3	3.49	4.00	3.25
YES								
L0000551	0	0.46680E-07	484353.2	3718870.3	471.0	3.49	4.00	3.25
YES								
L0000552	0	0.46680E-07	484361.8	3718870.2	470.7	3.49	4.00	3.25
YES								
L0000553	0	0.46680E-07	484370.4	3718870.2	470.2	3.49	4.00	3.25
YES								
L0000554	0	0.46680E-07	484379.0	3718870.1	469.7	3.49	4.00	3.25
YES								
L0000555	0	0.46680E-07	484387.6	3718870.0	469.2	3.49	4.00	3.25
YES								
L0000556	0	0.46680E-07	484396.2	3718869.9	469.0	3.49	4.00	3.25
YES								
L0000557	0	0.46680E-07	484404.7	3718869.8	469.0	3.49	4.00	3.25
YES								
L0000558	0	0.46680E-07	484413.3	3718869.7	469.0	3.49	4.00	3.25
YES								
L0000559	0	0.46680E-07	484421.9	3718869.6	469.0	3.49	4.00	3.25
YES								
L0000560	0	0.46680E-07	484430.5	3718869.5	469.0	3.49	4.00	3.25
YES								
L0000561	0	0.45680E-07	484400.9	3718870.4	469.0	3.49	4.00	3.25
YES								
L0000562	0	0.45680E-07	484409.5	3718870.3	469.0	3.49	4.00	3.25
YES								
L0000563	0	0.45680E-07	484418.1	3718870.2	469.0	3.49	4.00	3.25
YES								
L0000564	0	0.45680E-07	484426.7	3718870.1	469.0	3.49	4.00	3.25
YES								
L0000565	0	0.45680E-07	484435.3	3718870.0	469.0	3.49	4.00	3.25
YES								
L0000566	0	0.45680E-07	484443.8	3718869.9	469.0	3.49	4.00	3.25
YES								
L0000567	0	0.45680E-07	484452.4	3718869.8	469.0	3.49	4.00	3.25
YES								
L0000568	0	0.45680E-07	484461.0	3718869.7	469.0	3.49	4.00	3.25
YES								
L0000569	0	0.45680E-07	484469.6	3718869.6	469.0	3.49	4.00	3.25
YES								
L0000570	0	0.45680E-07	484478.2	3718869.5	469.0	3.49	4.00	3.25
YES								
L0000571	0	0.45680E-07	484484.4	3718867.1	469.0	3.49	4.00	3.25

*** 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	SCALAR VARY BY
L0000573	0	0.45680E-07	484483.9	3718849.9	469.0	3.49	4.00	3.25	YES
L0000574	0	0.45680E-07	484483.6	3718841.4	469.0	3.49	4.00	3.25	YES
L0000575	0	0.45680E-07	484483.3	3718832.8	468.9	3.49	4.00	3.25	YES
L0000576	0	0.45680E-07	484483.1	3718824.2	468.9	3.49	4.00	3.25	YES
L0000577	0	0.45680E-07	484482.8	3718815.6	468.9	3.49	4.00	3.25	YES
L0000578	0	0.45680E-07	484482.6	3718807.0	468.9	3.49	4.00	3.25	YES
L0000579	0	0.45680E-07	484482.3	3718798.4	469.0	3.49	4.00	3.25	YES
L0000580	0	0.45680E-07	484487.9	3718795.3	468.9	3.49	4.00	3.25	YES
L0000581	0	0.45680E-07	484496.5	3718795.1	468.8	3.49	4.00	3.25	YES
L0000582	0	0.13490E-07	484462.0	3718995.2	468.6	3.49	4.00	3.25	YES
L0000583	0	0.13490E-07	484462.1	3718986.6	468.6	3.49	4.00	3.25	YES
L0000584	0	0.13490E-07	484462.2	3718978.0	468.6	3.49	4.00	3.25	YES
L0000585	0	0.13490E-07	484468.8	3718976.2	468.4	3.49	4.00	3.25	YES
L0000586	0	0.13490E-07	484477.3	3718976.3	468.1	3.49	4.00	3.25	YES
L0000587	0	0.13490E-07	484485.9	3718976.5	467.9	3.49	4.00	3.25	YES
L0000588	0	0.13490E-07	484494.5	3718976.7	467.7	3.49	4.00	3.25	YES
L0000589	0	0.13490E-07	484503.1	3718976.9	467.4	3.49	4.00	3.25	YES
L0000590	0	0.12350E-07	484467.5	3719117.3	465.9	3.49	4.00	3.25	YES
L0000591	0	0.12350E-07	484467.5	3719108.7	465.6	3.49	4.00	3.25	YES
L0000592	0	0.12350E-07	484467.4	3719100.1	465.3	3.49	4.00	3.25	YES
L0000593	0	0.12350E-07	484467.3	3719091.5	465.0	3.49	4.00	3.25	YES
L0000594	0	0.12350E-07	484470.4	3719086.0	464.6	3.49	4.00	3.25	

```
 YES
 L0000595         0   0.12350E-07  484479.0 3719086.0   464.1     3.49     4.00     3.25
 YES
 L0000596         0   0.12350E-07  484487.6 3719085.9   464.0     3.49     4.00     3.25
 YES
 L0000597         0   0.12350E-07  484496.1 3719085.9   464.0     3.49     4.00     3.25
 YES
 L0000598         0   0.12350E-07  484504.7 3719085.8   464.0     3.49     4.00     3.25
 YES
 L0000599         0   0.12350E-07  484513.3 3719085.8   463.9     3.49     4.00     3.25
 YES
 L0000600         0   0.14320E-07  484139.1 3718894.3   481.2     3.49     4.00     3.25
 YES
 L0000601         0   0.14320E-07  484138.8 3718885.7   480.8     3.49     4.00     3.25
 YES
 L0000602         0   0.14320E-07  484138.4 3718877.1   480.4     3.49     4.00     3.25
 YES
 L0000603         0   0.14320E-07  484138.0 3718868.5   480.2     3.49     4.00     3.25
 YES
 L0000604         0   0.14320E-07  484137.6 3718859.9   480.1     3.49     4.00     3.25
 YES
 L0000605         0   0.14320E-07  484137.2 3718851.3   479.9     3.49     4.00     3.25
 YES
 L0000606         0   0.14320E-07  484136.9 3718842.8   479.8     3.49     4.00     3.25
 YES
 L0000607         0   0.14320E-07  484136.5 3718834.2   479.5     3.49     4.00     3.25
 YES
 L0000608         0   0.14320E-07  484136.1 3718825.6   479.2     3.49     4.00     3.25
 YES
 L0000609         0   0.14320E-07  484135.7 3718817.0   479.0     3.49     4.00     3.25
 YES
 L0000610         0   0.14320E-07  484135.4 3718808.4   479.0     3.49     4.00     3.25
 YES
 L0000611         0   0.14320E-07  484135.0 3718799.9   479.0     3.49     4.00     3.25
 YES
 L0000612         0   0.14320E-07  484134.6 3718791.3   479.0     3.49     4.00     3.25
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery
Village\14073 O ***        01/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       14:21:32

                     PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - -

 L0000613         0   0.14320E-07  484134.2 3718782.7   478.8     3.49     4.00     3.25
 YES
 L0000614         0   0.14320E-07  484133.8 3718774.1   478.3     3.49     4.00     3.25
 YES
 L0000615         0   0.14320E-07  484133.4 3718765.5   477.7     3.49     4.00     3.25
 YES
 L0000616         0   0.14320E-07  484133.1 3718756.9   477.2     3.49     4.00     3.25
 YES
 L0000617         0   0.14320E-07  484132.7 3718748.4   476.8     3.49     4.00     3.25
```

YES								
L0000618	0	0.14320E-07	484132.3	3718739.8	476.3	3.49	4.00	3.25
YES								
L0000619	0	0.14320E-07	484131.9	3718731.2	475.9	3.49	4.00	3.25
YES								
L0000620	0	0.14320E-07	484131.5	3718722.6	475.6	3.49	4.00	3.25
YES								
L0000621	0	0.14320E-07	484131.1	3718714.0	475.6	3.49	4.00	3.25
YES								
L0000622	0	0.14320E-07	484130.7	3718705.5	475.6	3.49	4.00	3.25
YES								
L0000623	0	0.14320E-07	484130.3	3718696.9	475.7	3.49	4.00	3.25
YES								
L0000624	0	0.14320E-07	484130.0	3718688.3	475.7	3.49	4.00	3.25
YES								
L0000625	0	0.14320E-07	484129.6	3718679.7	475.7	3.49	4.00	3.25
YES								
L0000626	0	0.14320E-07	484129.2	3718671.1	475.7	3.49	4.00	3.25
YES								
L0000627	0	0.14320E-07	484128.8	3718662.6	475.6	3.49	4.00	3.25
YES								
L0000628	0	0.14320E-07	484128.4	3718654.0	475.3	3.49	4.00	3.25
YES								
L0000629	0	0.14320E-07	484128.0	3718645.4	475.1	3.49	4.00	3.25
YES								
L0000630	0	0.14320E-07	484127.6	3718636.8	474.8	3.49	4.00	3.25
YES								
L0000631	0	0.14320E-07	484127.3	3718628.2	474.6	3.49	4.00	3.25
YES								
L0000632	0	0.14320E-07	484126.9	3718619.6	474.4	3.49	4.00	3.25
YES								
L0000633	0	0.14320E-07	484126.5	3718611.1	474.1	3.49	4.00	3.25
YES								
L0000634	0	0.14320E-07	484126.1	3718602.5	474.0	3.49	4.00	3.25
YES								
L0000635	0	0.14320E-07	484125.7	3718593.9	474.0	3.49	4.00	3.25
YES								
L0000636	0	0.14320E-07	484125.3	3718585.3	474.0	3.49	4.00	3.25
YES								
L0000637	0	0.14320E-07	484124.9	3718576.7	474.0	3.49	4.00	3.25
YES								
L0000638	0	0.14320E-07	484124.5	3718568.2	474.2	3.49	4.00	3.25
YES								
L0000639	0	0.14320E-07	484124.2	3718559.6	474.5	3.49	4.00	3.25
YES								
L0000640	0	0.14320E-07	484123.9	3718551.0	474.7	3.49	4.00	3.25
YES								
L0000641	0	0.14320E-07	484123.8	3718542.4	474.9	3.49	4.00	3.25
YES								
L0000642	0	0.14320E-07	484123.6	3718533.8	474.9	3.49	4.00	3.25
YES								
L0000643	0	0.14320E-07	484123.4	3718525.2	474.9	3.49	4.00	3.25
YES								
L0000644	0	0.14320E-07	484123.2	3718516.6	474.9	3.49	4.00	3.25
YES								
L0000645	0	0.14320E-07	484123.0	3718508.1	474.6	3.49	4.00	3.25
YES								
L0000646	0	0.14320E-07	484122.9	3718499.5	474.4	3.49	4.00	3.25
YES								
L0000647	0	0.14320E-07	484122.7	3718490.9	474.1	3.49	4.00	3.25
YES								
L0000648	0	0.14320E-07	484122.5	3718482.3	473.9	3.49	4.00	3.25
YES								
L0000649	0	0.14320E-07	484122.3	3718473.7	473.9	3.49	4.00	3.25
YES								
L0000650	0	0.14320E-07	484122.1	3718465.1	473.9	3.49	4.00	3.25

*** 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
L0000651	0	0.14320E-07	484122.0	3718456.5	473.9	3.49	4.00	3.25
YES								
L0000652	0	0.14320E-07	484121.8	3718447.9	473.6	3.49	4.00	3.25
YES								
L0000653	0	0.14320E-07	484121.6	3718439.3	473.4	3.49	4.00	3.25
YES								
L0000654	0	0.14320E-07	484125.5	3718434.6	473.1	3.49	4.00	3.25
YES								
L0000655	0	0.14320E-07	484134.1	3718434.3	472.7	3.49	4.00	3.25
YES								
L0000656	0	0.14320E-07	484142.7	3718434.0	472.3	3.49	4.00	3.25
YES								
L0000657	0	0.14320E-07	484151.2	3718433.6	472.0	3.49	4.00	3.25
YES								
L0000658	0	0.14320E-07	484159.8	3718433.3	471.8	3.49	4.00	3.25
YES								
L0000659	0	0.14320E-07	484168.4	3718433.0	471.5	3.49	4.00	3.25
YES								
L0000660	0	0.14320E-07	484177.0	3718432.6	471.3	3.49	4.00	3.25
YES								
L0000661	0	0.14320E-07	484185.6	3718432.5	471.0	3.49	4.00	3.25
YES								
L0000662	0	0.14320E-07	484194.2	3718432.5	470.6	3.49	4.00	3.25
YES								
L0000663	0	0.14320E-07	484202.8	3718432.5	470.3	3.49	4.00	3.25
YES								
L0000664	0	0.14320E-07	484211.4	3718432.5	470.0	3.49	4.00	3.25
YES								
L0000665	0	0.14320E-07	484219.9	3718432.5	470.0	3.49	4.00	3.25
YES								
L0000666	0	0.14320E-07	484228.5	3718432.5	470.0	3.49	4.00	3.25
YES								
L0000667	0	0.14320E-07	484237.1	3718432.5	470.0	3.49	4.00	3.25
YES								
L0000668	0	0.14320E-07	484245.7	3718432.5	469.8	3.49	4.00	3.25
YES								
L0000669	0	0.14320E-07	484254.3	3718432.5	469.5	3.49	4.00	3.25
YES								
L0000670	0	0.14320E-07	484262.9	3718432.5	469.2	3.49	4.00	3.25
YES								
L0000671	0	0.14320E-07	484271.5	3718432.5	469.0	3.49	4.00	3.25
YES								
L0000672	0	0.14320E-07	484280.1	3718432.5	469.0	3.49	4.00	3.25
YES								
L0000673	0	0.14320E-07	484288.7	3718432.5	469.0	3.49	4.00	3.25

YES
L0000674 0 0.14320E-07 484297.3 3718432.5 469.0 3.49 4.00 3.25
YES
L0000675 0 0.14320E-07 484305.8 3718432.5 468.9 3.49 4.00 3.25
YES
L0000676 0 0.14320E-07 484314.4 3718432.5 468.6 3.49 4.00 3.25
YES
L0000677 0 0.14320E-07 484323.0 3718432.5 468.4 3.49 4.00 3.25
YES
L0000678 0 0.14320E-07 484331.6 3718432.5 468.2 3.49 4.00 3.25
YES
L0000679 0 0.14320E-07 484340.2 3718432.5 468.1 3.49 4.00 3.25
YES
L0000680 0 0.14320E-07 484348.8 3718432.5 468.1 3.49 4.00 3.25
YES
L0000681 0 0.14320E-07 484357.4 3718432.5 468.0 3.49 4.00 3.25
YES
L0000682 0 0.14320E-07 484366.0 3718432.5 468.0 3.49 4.00 3.25
YES
L0000683 0 0.14320E-07 484374.6 3718432.5 468.0 3.49 4.00 3.25
YES
L0000684 0 0.14320E-07 484383.2 3718432.4 468.0 3.49 4.00 3.25
YES
L0000685 0 0.14320E-07 484391.7 3718432.4 468.0 3.49 4.00 3.25
YES
L0000686 0 0.14320E-07 484400.3 3718432.3 468.0 3.49 4.00 3.25
YES
L0000687 0 0.14320E-07 484408.9 3718432.2 468.0 3.49 4.00 3.25
YES
L0000688 0 0.14320E-07 484417.5 3718432.2 468.0 3.49 4.00 3.25
YES
L0000689 0 0.14320E-07 484426.1 3718431.6 468.2 3.49 4.00 3.25
YES
L0000690 0 0.14320E-07 484434.6 3718430.9 468.5 3.49 4.00 3.25
YES
L0000691 0 0.14320E-07 484442.5 3718428.4 468.8 3.49 4.00 3.25
YES
L0000692 0 0.14320E-07 484449.4 3718423.3 468.9 3.49 4.00 3.25
YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR VARY CATS. BY	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000693	0	0.14320E-07	484453.4	3718416.0	468.7	3.49	4.00	3.25
YES								
L0000694	0	0.14320E-07	484455.7	3718407.8	468.4	3.49	4.00	3.25
YES								
L0000695	0	0.14320E-07	484456.4	3718399.2	468.1	3.49	4.00	3.25
YES								
L0000696	0	0.14320E-07	484456.8	3718390.7	467.8	3.49	4.00	3.25

YES								
L0000697	0	0.14320E-07	484456.5	3718382.1	467.4	3.49	4.00	3.25
YES								
L0000698	0	0.14320E-07	484456.3	3718373.5	467.1	3.49	4.00	3.25
YES								
L0000699	0	0.23430E-07	484464.2	3718361.1	466.4	3.49	6.51	3.25
YES								
L0000700	0	0.23430E-07	484478.2	3718361.0	466.1	3.49	6.51	3.25
YES								
L0000701	0	0.23430E-07	484492.2	3718360.9	465.9	3.49	6.51	3.25
YES								
L0000702	0	0.23430E-07	484506.2	3718360.8	465.9	3.49	6.51	3.25
YES								
L0000703	0	0.23430E-07	484520.2	3718360.7	465.5	3.49	6.51	3.25
YES								
L0000704	0	0.23430E-07	484534.2	3718360.6	465.0	3.49	6.51	3.25
YES								
L0000705	0	0.23430E-07	484548.2	3718360.5	464.6	3.49	6.51	3.25
YES								
L0000706	0	0.23430E-07	484562.2	3718360.4	464.2	3.49	6.51	3.25
YES								
L0000707	0	0.23430E-07	484576.2	3718360.3	463.8	3.49	6.51	3.25
YES								
L0000708	0	0.23430E-07	484590.2	3718360.2	463.3	3.49	6.51	3.25
YES								
L0000709	0	0.23430E-07	484604.2	3718360.1	462.9	3.49	6.51	3.25
YES								
L0000710	0	0.23430E-07	484618.2	3718360.0	462.4	3.49	6.51	3.25
YES								
L0000711	0	0.23430E-07	484632.2	3718359.9	461.9	3.49	6.51	3.25
YES								
L0000712	0	0.23430E-07	484646.2	3718360.3	461.4	3.49	6.51	3.25
YES								
L0000713	0	0.23430E-07	484660.1	3718361.4	460.8	3.49	6.51	3.25
YES								
L0000714	0	0.23430E-07	484674.0	3718363.2	460.0	3.49	6.51	3.25
YES								
L0000715	0	0.23430E-07	484687.9	3718364.9	459.1	3.49	6.51	3.25
YES								
L0000716	0	0.23430E-07	484701.8	3718366.5	458.6	3.49	6.51	3.25
YES								
L0000717	0	0.23430E-07	484715.7	3718368.1	458.2	3.49	6.51	3.25
YES								
L0000718	0	0.23430E-07	484729.6	3718369.8	458.1	3.49	6.51	3.25
YES								
L0000719	0	0.23430E-07	484743.5	3718371.4	458.0	3.49	6.51	3.25
YES								
L0000720	0	0.23430E-07	484757.4	3718373.0	458.1	3.49	6.51	3.25
YES								
L0000721	0	0.23430E-07	484771.3	3718374.7	458.2	3.49	6.51	3.25
YES								
L0000722	0	0.23430E-07	484785.2	3718376.3	458.3	3.49	6.51	3.25
YES								
L0000723	0	0.23430E-07	484799.1	3718377.7	458.1	3.49	6.51	3.25
YES								
L0000724	0	0.23430E-07	484813.1	3718378.9	457.9	3.49	6.51	3.25
YES								
L0000725	0	0.23430E-07	484827.0	3718379.7	457.7	3.49	6.51	3.25
YES								
L0000726	0	0.23430E-07	484841.0	3718379.9	457.4	3.49	6.51	3.25
YES								
L0000727	0	0.23430E-07	484855.0	3718380.0	457.0	3.49	6.51	3.25
YES								
L0000728	0	0.23430E-07	484869.0	3718380.2	456.5	3.49	6.51	3.25
YES								
L0000729	0	0.87840E-08	484529.4	3719076.7	463.2	3.49	6.51	3.25

*** 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
L0000730	0	0.87840E-08	484528.5	3719062.8	463.1	3.49	6.51	3.25
YES								
L0000731	0	0.87840E-08	484527.5	3719048.8	463.5	3.49	6.51	3.25
YES								
L0000732	0	0.87840E-08	484526.9	3719034.8	464.4	3.49	6.51	3.25
YES								
L0000733	0	0.87840E-08	484526.2	3719020.8	465.1	3.49	6.51	3.25
YES								
L0000734	0	0.87840E-08	484525.5	3719006.8	465.3	3.49	6.51	3.25
YES								
L0000735	0	0.87840E-08	484524.8	3718992.9	465.6	3.49	6.51	3.25
YES								
L0000736	0	0.87840E-08	484524.1	3718978.9	466.1	3.49	6.51	3.25
YES								
L0000737	0	0.18850E-07	484523.2	3718970.3	466.5	3.49	6.51	3.25
YES								
L0000738	0	0.18850E-07	484522.5	3718956.4	467.3	3.49	6.51	3.25
YES								
L0000739	0	0.18850E-07	484521.8	3718942.4	468.1	3.49	6.51	3.25
YES								
L0000740	0	0.18850E-07	484521.1	3718928.4	468.5	3.49	6.51	3.25
YES								
L0000741	0	0.18850E-07	484520.4	3718914.4	468.8	3.49	6.51	3.25
YES								
L0000742	0	0.18850E-07	484519.7	3718900.4	469.0	3.49	6.51	3.25
YES								
L0000743	0	0.18850E-07	484518.9	3718886.4	469.0	3.49	6.51	3.25
YES								
L0000744	0	0.18850E-07	484518.2	3718872.5	469.0	3.49	6.51	3.25
YES								
L0000745	0	0.18850E-07	484517.5	3718858.5	469.0	3.49	6.51	3.25
YES								
L0000746	0	0.18850E-07	484516.8	3718844.5	468.9	3.49	6.51	3.25
YES								
L0000747	0	0.18850E-07	484516.1	3718830.5	468.5	3.49	6.51	3.25
YES								
L0000748	0	0.18850E-07	484515.4	3718816.5	468.0	3.49	6.51	3.25
YES								
L0000749	0	0.18850E-07	484514.7	3718802.6	468.4	3.49	6.51	3.25
YES								
L0000750	0	0.50770E-07	484518.4	3718780.6	469.0	3.49	4.00	3.25
YES								
L0000751	0	0.50770E-07	484527.0	3718780.5	469.0	3.49	4.00	3.25
YES								
L0000752	0	0.50770E-07	484535.6	3718780.3	469.0	3.49	4.00	3.25

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 YES
 L0000753         0   0.50770E-07  484544.2 3718780.2   469.0     3.49     4.00     3.25
 YES
 L0000754         0   0.50770E-07  484552.8 3718780.1   469.0     3.49     4.00     3.25
 YES
 L0000755         0   0.50770E-07  484561.4 3718779.9   469.0     3.49     4.00     3.25
 YES
 L0000756         0   0.50770E-07  484569.9 3718779.8   469.0     3.49     4.00     3.25
 YES
 L0000757         0   0.50770E-07  484578.5 3718779.6   468.5     3.49     4.00     3.25
 YES
 L0000758         0   0.50770E-07  484587.1 3718779.5   468.0     3.49     4.00     3.25
 YES
 L0000759         0   0.50770E-07  484595.7 3718779.3   467.5     3.49     4.00     3.25
 YES
 L0000760         0   0.50770E-07  484604.3 3718779.2   467.1     3.49     4.00     3.25
 YES
 L0000761         0   0.50770E-07  484612.9 3718779.1   466.7     3.49     4.00     3.25
 YES
 L0000762         0   0.50770E-07  484621.5 3718778.9   466.4     3.49     4.00     3.25
 YES
 L0000763         0   0.50770E-07  484630.1 3718778.8   466.0     3.49     4.00     3.25
 YES
 L0000764         0   0.50770E-07  484638.7 3718778.7   465.7     3.49     4.00     3.25
 YES
 L0000765         0   0.50770E-07  484647.2 3718778.6   465.4     3.49     4.00     3.25
 YES
 L0000766         0   0.50770E-07  484655.8 3718778.4   465.1     3.49     4.00     3.25
 YES
 L0000767         0   0.50770E-07  484664.4 3718778.3   464.9     3.49     4.00     3.25
 YES
 L0000768         0   0.50770E-07  484673.0 3718778.2   464.6     3.49     4.00     3.25
 YES
 L0000769         0   0.50770E-07  484681.6 3718778.0   464.3     3.49     4.00     3.25
 YES
 L0000770         0   0.50770E-07  484690.2 3718777.9   464.0     3.49     4.00     3.25
 YES
 L0000771         0   0.50770E-07  484698.8 3718777.8   464.0     3.49     4.00     3.25
 YES
 L0000772         0   0.50770E-07  484707.4 3718777.6   464.0     3.49     4.00     3.25
 YES
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery
Village\14073 O ***        01/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       14:21:32

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - -

 L0000773         0   0.50770E-07  484716.0 3718777.5   464.0     3.49     4.00     3.25
 YES
 L0000774         0   0.50770E-07  484724.5 3718777.4   464.0     3.49     4.00     3.25
 YES
 L0000775         0   0.50770E-07  484733.1 3718777.2   464.0     3.49     4.00     3.25
```

YES
L0000776 0 0.50770E-07 484741.7 3718777.1 464.0 3.49 4.00 3.25
YES
L0000777 0 0.50770E-07 484750.3 3718777.0 464.0 3.49 4.00 3.25
YES
L0000778 0 0.50770E-07 484758.9 3718776.9 464.0 3.49 4.00 3.25
YES
L0000779 0 0.50770E-07 484767.5 3718776.7 464.0 3.49 4.00 3.25
YES
L0000780 0 0.50770E-07 484776.1 3718776.6 464.0 3.49 4.00 3.25
YES
L0000781 0 0.50770E-07 484784.7 3718776.5 463.9 3.49 4.00 3.25
YES
L0000782 0 0.50770E-07 484793.3 3718776.3 463.6 3.49 4.00 3.25
YES
L0000783 0 0.50770E-07 484801.8 3718776.2 463.3 3.49 4.00 3.25
YES
L0000784 0 0.50770E-07 484810.4 3718776.1 463.0 3.49 4.00 3.25
YES
L0000785 0 0.50770E-07 484819.0 3718775.9 462.1 3.49 4.00 3.25
YES
L0000786 0 0.50770E-07 484827.6 3718775.8 461.2 3.49 4.00 3.25
YES
L0000787 0 0.50770E-07 484836.2 3718775.7 460.4 3.49 4.00 3.25
YES
L0000788 0 0.50770E-07 484844.8 3718775.6 459.7 3.49 4.00 3.25
YES
L0000789 0 0.50770E-07 484853.4 3718775.4 459.1 3.49 4.00 3.25
YES
L0000790 0 0.50770E-07 484862.0 3718775.3 458.5 3.49 4.00 3.25
YES
L0000791 0 0.50770E-07 484870.6 3718775.2 458.0 3.49 4.00 3.25
YES
L0000792 0 0.50770E-07 484879.1 3718775.0 457.7 3.49 4.00 3.25
YES
L0000793 0 0.50770E-07 484887.7 3718774.9 457.4 3.49 4.00 3.25
YES
L0000794 0 0.84040E-07 484902.1 3718768.3 457.0 3.49 6.51 3.25
YES
L0000795 0 0.84040E-07 484901.6 3718754.3 457.1 3.49 6.51 3.25
YES
L0000796 0 0.84040E-07 484901.0 3718740.4 457.5 3.49 6.51 3.25
YES
L0000797 0 0.84040E-07 484900.5 3718726.4 458.0 3.49 6.51 3.25
YES
L0000798 0 0.84040E-07 484899.9 3718712.4 458.0 3.49 6.51 3.25
YES
L0000799 0 0.84040E-07 484899.4 3718698.4 458.0 3.49 6.51 3.25
YES
L0000800 0 0.84040E-07 484898.8 3718684.4 458.1 3.49 6.51 3.25
YES
L0000801 0 0.84040E-07 484898.3 3718670.4 458.2 3.49 6.51 3.25
YES
L0000802 0 0.84040E-07 484897.7 3718656.4 459.2 3.49 6.51 3.25
YES
L0000803 0 0.84040E-07 484897.1 3718642.4 460.6 3.49 6.51 3.25
YES
L0000804 0 0.84040E-07 484896.6 3718628.4 461.2 3.49 6.51 3.25
YES
L0000805 0 0.84040E-07 484896.0 3718614.5 461.3 3.49 6.51 3.25
YES
L0000806 0 0.84040E-07 484895.5 3718600.5 461.1 3.49 6.51 3.25
YES
L0000807 0 0.84040E-07 484894.9 3718586.5 460.7 3.49 6.51 3.25
YES
L0000808 0 0.84040E-07 484894.4 3718572.5 460.1 3.49 6.51 3.25

*** 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
L0000809	0	0.84040E-07	484893.8	3718558.5	459.2	3.49	6.51	3.25	YES
L0000810	0	0.84040E-07	484893.2	3718544.5	458.4	3.49	6.51	3.25	YES
L0000811	0	0.84040E-07	484892.7	3718530.5	458.2	3.49	6.51	3.25	YES
L0000812	0	0.84040E-07	484892.1	3718516.5	458.0	3.49	6.51	3.25	YES
L0000813	0	0.84040E-07	484891.6	3718502.5	457.7	3.49	6.51	3.25	YES
L0000814	0	0.84040E-07	484891.0	3718488.5	457.4	3.49	6.51	3.25	YES
L0000815	0	0.84040E-07	484890.5	3718474.6	457.6	3.49	6.51	3.25	YES
L0000816	0	0.84040E-07	484889.9	3718460.6	457.9	3.49	6.51	3.25	YES
L0000817	0	0.84040E-07	484889.4	3718446.6	458.0	3.49	6.51	3.25	YES
L0000818	0	0.84040E-07	484888.8	3718432.6	458.0	3.49	6.51	3.25	YES
L0000819	0	0.84040E-07	484888.2	3718418.6	457.8	3.49	6.51	3.25	YES
L0000820	0	0.84040E-07	484887.7	3718404.6	457.3	3.49	6.51	3.25	YES
L0000821	0	0.84040E-07	484887.1	3718390.6	456.9	3.49	6.51	3.25	YES
L0000822	0	0.10690E-06	484886.7	3718372.8	456.7	3.49	6.51	3.25	YES
L0000823	0	0.10690E-06	484886.8	3718358.8	456.4	3.49	6.51	3.25	YES
L0000824	0	0.10690E-06	484886.8	3718344.8	456.2	3.49	6.51	3.25	YES
L0000825	0	0.10690E-06	484886.8	3718330.8	456.0	3.49	6.51	3.25	YES
L0000826	0	0.10690E-06	484886.8	3718316.8	456.0	3.49	6.51	3.25	YES
L0000827	0	0.10690E-06	484886.9	3718302.8	456.1	3.49	6.51	3.25	YES
L0000828	0	0.10690E-06	484886.9	3718288.8	456.6	3.49	6.51	3.25	YES
L0000829	0	0.10690E-06	484886.9	3718274.8	457.0	3.49	6.51	3.25	YES
L0000830	0	0.10690E-06	484887.0	3718260.8	457.0	3.49	6.51	3.25	YES
L0000831	0	0.10690E-06	484887.0	3718246.8	457.0	3.49	6.51	3.25	

YES
L0000832 0 0.10690E-06 484887.0 3718232.8 456.5 3.49 6.51 3.25
YES
L0000833 0 0.10690E-06 484887.1 3718218.8 456.0 3.49 6.51 3.25
YES
L0000834 0 0.10690E-06 484887.1 3718204.8 455.0 3.49 6.51 3.25
YES
L0000835 0 0.10690E-06 484887.1 3718190.8 453.8 3.49 6.51 3.25
YES
L0000836 0 0.10690E-06 484887.2 3718176.8 453.1 3.49 6.51 3.25
YES
L0000837 0 0.10690E-06 484887.4 3718162.8 452.7 3.49 6.51 3.25
YES
L0000838 0 0.10690E-06 484887.5 3718148.8 452.8 3.49 6.51 3.25
YES
L0000839 0 0.10690E-06 484887.7 3718134.8 453.4 3.49 6.51 3.25
YES
L0000840 0 0.10690E-06 484887.8 3718120.8 454.2 3.49 6.51 3.25
YES
L0000841 0 0.10690E-06 484888.0 3718106.8 455.2 3.49 6.51 3.25
YES
L0000842 0 0.10690E-06 484888.2 3718092.8 456.0 3.49 6.51 3.25
YES
L0000843 0 0.10690E-06 484888.3 3718078.8 456.2 3.49 6.51 3.25
YES
L0000844 0 0.10690E-06 484888.5 3718064.8 456.4 3.49 6.51 3.25
YES
L0000845 0 0.10690E-06 484888.6 3718050.8 456.4 3.49 6.51 3.25
YES
L0000846 0 0.10690E-06 484888.8 3718036.8 456.4 3.49 6.51 3.25
YES
L0000847 0 0.10690E-06 484889.0 3718022.8 456.4 3.49 6.51 3.25
YES
L0000848 0 0.10690E-06 484889.1 3718008.8 456.4 3.49 6.51 3.25
YES
L0000849 0 0.10690E-06 484889.3 3717994.9 456.2 3.49 6.51 3.25
YES
L0000850 0 0.10690E-06 484889.4 3717980.9 456.1 3.49 6.51 3.25
YES
L0000851 0 0.10690E-06 484889.6 3717966.9 455.8 3.49 6.51 3.25
YES
L0000852 0 0.10690E-06 484889.8 3717952.9 455.5 3.49 6.51 3.25
YES

*** 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
L0000853	0	0.10690E-06	484889.9	3717938.9	455.2	3.49	6.51	3.25
YES								
L0000854	0	0.10690E-06	484890.1	3717924.9	454.9	3.49	6.51	3.25

YES
L0000855 0 0.10690E-06 484890.2 3717910.9 454.5 3.49 6.51 3.25
YES
L0000856 0 0.10690E-06 484890.4 3717896.9 454.0 3.49 6.51 3.25
YES
L0000857 0 0.10690E-06 484890.5 3717882.9 453.5 3.49 6.51 3.25
YES
L0000858 0 0.10690E-06 484890.7 3717868.9 452.9 3.49 6.51 3.25
YES
L0000859 0 0.10690E-06 484890.8 3717854.9 452.3 3.49 6.51 3.25
YES
L0000860 0 0.10690E-06 484890.9 3717840.9 452.2 3.49 6.51 3.25
YES
L0000861 0 0.10690E-06 484891.1 3717826.9 452.0 3.49 6.51 3.25
YES
L0000862 0 0.10690E-06 484891.2 3717812.9 451.6 3.49 6.51 3.25
YES
L0000863 0 0.10690E-06 484891.3 3717798.9 451.1 3.49 6.51 3.25
YES
L0000864 0 0.10690E-06 484891.5 3717784.9 450.7 3.49 6.51 3.25
YES
L0000865 0 0.10690E-06 484891.6 3717770.9 450.4 3.49 6.51 3.25
YES
L0000866 0 0.10690E-06 484891.7 3717756.9 451.0 3.49 6.51 3.25
YES
L0000867 0 0.10690E-06 484891.9 3717742.9 452.0 3.49 6.51 3.25
YES
L0000868 0 0.10690E-06 484892.0 3717728.9 452.7 3.49 6.51 3.25
YES
L0000869 0 0.10690E-06 484892.2 3717714.9 452.9 3.49 6.51 3.25
YES
L0000870 0 0.10690E-06 484892.3 3717700.9 452.8 3.49 6.51 3.25
YES
L0000871 0 0.10690E-06 484892.4 3717686.9 452.2 3.49 6.51 3.25
YES
L0000872 0 0.10690E-06 484892.6 3717672.9 451.6 3.49 6.51 3.25
YES
L0000873 0 0.10690E-06 484893.0 3717658.9 451.0 3.49 6.51 3.25
YES
L0000874 0 0.10690E-06 484893.4 3717644.9 450.4 3.49 6.51 3.25
YES
L0000875 0 0.10690E-06 484893.8 3717630.9 449.8 3.49 6.51 3.25
YES
L0000876 0 0.10690E-06 484894.1 3717616.9 449.2 3.49 6.51 3.25
YES
L0000877 0 0.10690E-06 484894.5 3717602.9 449.3 3.49 6.51 3.25
YES
L0000878 0 0.10690E-06 484894.9 3717588.9 449.3 3.49 6.51 3.25
YES
L0000879 0 0.10690E-06 484892.9 3717577.2 449.5 3.49 6.51 3.25
YES
L0000880 0 0.10690E-06 484878.9 3717577.4 450.4 3.49 6.51 3.25
YES
L0000881 0 0.10690E-06 484864.9 3717577.5 451.3 3.49 6.51 3.25
YES
L0000882 0 0.10690E-06 484850.9 3717577.7 452.3 3.49 6.51 3.25
YES
L0000883 0 0.10690E-06 484837.0 3717577.8 453.3 3.49 6.51 3.25
YES
L0000884 0 0.10690E-06 484823.0 3717578.0 454.7 3.49 6.51 3.25
YES
L0000885 0 0.10690E-06 484809.0 3717578.1 456.1 3.49 6.51 3.25
YES
L0000886 0 0.10690E-06 484795.0 3717578.3 457.9 3.49 6.51 3.25
YES
L0000887 0 0.10690E-06 484781.0 3717578.5 459.6 3.49 6.51 3.25

YES
L0000888 0 0.10690E-06 484767.0 3717578.6 461.3 3.49 6.51 3.25
YES
L0000889 0 0.10690E-06 484753.0 3717578.8 462.9 3.49 6.51 3.25
YES
L0000890 0 0.10690E-06 484739.0 3717578.9 463.2 3.49 6.51 3.25
YES
L0000891 0 0.10690E-06 484725.0 3717579.1 463.2 3.49 6.51 3.25
YES
L0000892 0 0.10690E-06 484711.0 3717579.2 463.0 3.49 6.51 3.25
YES

*** MODELOPTs: RegDFAULT CONC ELEV 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
L0000893	0	0.10690E-06	484697.0	3717579.4	462.6	3.49	6.51	3.25
YES								
L0000894	0	0.10690E-06	484683.0	3717579.5	462.4	3.49	6.51	3.25
YES								
L0000895	0	0.10690E-06	484669.0	3717579.5	462.3	3.49	6.51	3.25
YES								
L0000896	0	0.10690E-06	484655.0	3717579.5	462.2	3.49	6.51	3.25
YES								
L0000897	0	0.10690E-06	484641.0	3717579.6	462.2	3.49	6.51	3.25
YES								
L0000898	0	0.10690E-06	484627.0	3717579.6	462.1	3.49	6.51	3.25
YES								
L0000899	0	0.10690E-06	484613.0	3717579.7	461.6	3.49	6.51	3.25
YES								
L0000900	0	0.10690E-06	484599.0	3717579.7	461.2	3.49	6.51	3.25
YES								
L0000901	0	0.10690E-06	484585.0	3717579.7	461.2	3.49	6.51	3.25
YES								
L0000902	0	0.10690E-06	484571.0	3717579.8	461.2	3.49	6.51	3.25
YES								
L0000903	0	0.10690E-06	484557.0	3717579.8	460.9	3.49	6.51	3.25
YES								
L0000904	0	0.10690E-06	484543.0	3717579.9	460.5	3.49	6.51	3.25
YES								
L0000905	0	0.10690E-06	484529.0	3717579.9	460.6	3.49	6.51	3.25
YES								
L0000906	0	0.10690E-06	484515.0	3717579.9	460.9	3.49	6.51	3.25
YES								
L0000907	0	0.10690E-06	484501.0	3717580.0	461.1	3.49	6.51	3.25
YES								
L0000908	0	0.10690E-06	484487.0	3717580.0	461.2	3.49	6.51	3.25
YES								
L0000909	0	0.10690E-06	484473.0	3717580.0	461.2	3.49	6.51	3.25
YES								
L0000910	0	0.10690E-06	484459.0	3717580.1	461.2	3.49	6.51	3.25

YES
L0000911 0 0.10690E-06 484445.0 3717580.1 461.3 3.49 6.51 3.25
YES
L0000912 0 0.10690E-06 484431.0 3717580.2 461.7 3.49 6.51 3.25
YES
L0000913 0 0.10690E-06 484417.0 3717580.2 462.0 3.49 6.51 3.25
YES
L0000914 0 0.10690E-06 484403.0 3717580.2 462.0 3.49 6.51 3.25
YES
L0000915 0 0.10690E-06 484389.0 3717580.3 462.0 3.49 6.51 3.25
YES
L0000916 0 0.10690E-06 484375.0 3717580.3 462.0 3.49 6.51 3.25
YES
L0000917 0 0.10690E-06 484361.0 3717580.4 462.0 3.49 6.51 3.25
YES
L0000918 0 0.10690E-06 484347.0 3717580.6 462.0 3.49 6.51 3.25
YES
L0000919 0 0.10690E-06 484333.0 3717580.8 462.0 3.49 6.51 3.25
YES
L0000920 0 0.10690E-06 484319.0 3717581.0 462.0 3.49 6.51 3.25
YES
L0000921 0 0.10690E-06 484305.0 3717581.2 462.0 3.49 6.51 3.25
YES
L0000922 0 0.10690E-06 484291.0 3717581.3 462.0 3.49 6.51 3.25
YES
L0000923 0 0.10690E-06 484277.0 3717581.5 462.0 3.49 6.51 3.25
YES
L0000924 0 0.10690E-06 484263.0 3717581.7 462.2 3.49 6.51 3.25
YES
L0000925 0 0.10690E-06 484249.0 3717581.9 462.6 3.49 6.51 3.25
YES
L0000926 0 0.10690E-06 484235.0 3717582.1 462.9 3.49 6.51 3.25
YES
L0000927 0 0.10690E-06 484221.0 3717582.3 462.9 3.49 6.51 3.25
YES
L0000928 0 0.10690E-06 484207.0 3717582.4 462.9 3.49 6.51 3.25
YES
L0000929 0 0.10690E-06 484193.0 3717582.6 462.9 3.49 6.51 3.25
YES
L0000930 0 0.10690E-06 484179.0 3717582.7 462.9 3.49 6.51 3.25
YES
L0000931 0 0.10690E-06 484165.0 3717582.9 462.9 3.49 6.51 3.25
YES
L0000932 0 0.10690E-06 484151.0 3717583.0 462.9 3.49 6.51 3.25
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)	SCALAR VARY BY
L0000933	0	0.10690E-06	484137.0	3717583.1	463.3	3.49	6.51	3.25	

YES
L0000934 0 0.10690E-06 484123.0 3717583.3 463.7 3.49 6.51 3.25
YES
L0000935 0 0.10690E-06 484109.0 3717583.4 464.2 3.49 6.51 3.25
YES
L0000936 0 0.10690E-06 484095.0 3717583.4 464.7 3.49 6.51 3.25
YES
L0000937 0 0.10690E-06 484081.0 3717583.1 465.1 3.49 6.51 3.25
YES
L0000938 0 0.10690E-06 484067.0 3717582.7 465.5 3.49 6.51 3.25
YES
L0000939 0 0.10690E-06 484053.2 3717584.6 465.6 3.49 6.51 3.25
YES
L0000940 0 0.10690E-06 484039.7 3717588.1 465.5 3.49 6.51 3.25
YES
L0000941 0 0.10690E-06 484026.2 3717591.7 465.3 3.49 6.51 3.25
YES
L0000942 0 0.10690E-06 484012.6 3717595.3 465.4 3.49 6.51 3.25
YES
L0000943 0 0.10690E-06 483999.1 3717598.8 465.7 3.49 6.51 3.25
YES
L0000944 0 0.10690E-06 483985.6 3717602.4 466.4 3.49 6.51 3.25
YES
L0000945 0 0.10690E-06 483972.0 3717606.0 467.0 3.49 6.51 3.25
YES
L0000946 0 0.10690E-06 483958.5 3717609.7 466.2 3.49 6.51 3.25
YES
L0000947 0 0.10690E-06 483945.2 3717614.1 464.7 3.49 6.51 3.25
YES
L0000948 0 0.10690E-06 483931.9 3717618.4 463.8 3.49 6.51 3.25
YES
L0000949 0 0.10690E-06 483918.6 3717622.8 463.4 3.49 6.51 3.25
YES
L0000950 0 0.10690E-06 483905.3 3717627.1 462.8 3.49 6.51 3.25
YES
L0000951 0 0.10690E-06 483892.0 3717631.4 462.1 3.49 6.51 3.25
YES
L0000952 0 0.10690E-06 483878.7 3717635.8 461.3 3.49 6.51 3.25
YES
L0000953 0 0.10690E-06 483865.4 3717640.1 460.6 3.49 6.51 3.25
YES
L0000954 0 0.10690E-06 483852.1 3717644.5 460.1 3.49 6.51 3.25
YES
L0000955 0 0.10690E-06 483838.8 3717648.8 459.6 3.49 6.51 3.25
YES
L0000956 0 0.10690E-06 483825.4 3717653.1 459.0 3.49 6.51 3.25
YES
L0000957 0 0.10690E-06 483812.1 3717657.5 458.2 3.49 6.51 3.25
YES
L0000958 0 0.10690E-06 483798.8 3717661.8 457.4 3.49 6.51 3.25
YES
L0000959 0 0.10690E-06 483785.5 3717666.1 457.0 3.49 6.51 3.25
YES
L0000960 0 0.10690E-06 483772.0 3717669.8 457.0 3.49 6.51 3.25
YES
L0000961 0 0.10690E-06 483758.5 3717673.4 457.1 3.49 6.51 3.25
YES
L0000962 0 0.10690E-06 483745.0 3717677.1 457.6 3.49 6.51 3.25
YES
L0000963 0 0.10690E-06 483731.4 3717680.8 458.3 3.49 6.51 3.25
YES
L0000964 0 0.10690E-06 483717.8 3717684.0 459.3 3.49 6.51 3.25
YES
L0000965 0 0.10690E-06 483704.0 3717686.4 460.4 3.49 6.51 3.25
YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0000493 , L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 ,
	L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 ,
	L0000509 , L0000510 , L0000511 , L0000512 , L0000513 , L0000514 , L0000515 , L0000516 ,
	L0000517 , L0000518 , L0000519 , L0000520 , L0000521 , L0000522 , L0000523 , L0000524 ,
	L0000525 , L0000526 , L0000527 , L0000528 , L0000529 , L0000530 , L0000531 , L0000532 ,
	L0000533 , L0000534 , L0000535 , L0000536 , L0000537 , L0000538 , L0000539 , L0000540 ,
	L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 , L0000547 , L0000548 ,
	L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 ,
	L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 ,
	L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 ,
	L0000573 , L0000574 , L0000575 , L0000576 , L0000577 , L0000578 , L0000579 , L0000580 ,
	L0000581 , L0000582 , L0000583 , L0000584 , L0000585 , L0000586 , L0000587 , L0000588 ,
	L0000589 , L0000590 , L0000591 , L0000592 , L0000593 , L0000594 , L0000595 , L0000596 ,
	L0000597 , L0000598 , L0000599 , L0000600 , L0000601 , L0000602 , L0000603 , L0000604 ,
	L0000605 , L0000606 , L0000607 , L0000608 , L0000609 , L0000610 , L0000611 , L0000612 ,
	L0000613 , L0000614 , L0000615 , L0000616 , L0000617 , L0000618 , L0000619 , L0000620 ,
	L0000621 , L0000622 , L0000623 , L0000624 , L0000625 , L0000626 , L0000627 , L0000628 ,
	L0000629 , L0000630 , L0000631 , L0000632 , L0000633 , L0000634 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0000635 , L0000636 ,
	L0000637 , L0000638 , L0000639 , L0000640 , L0000641 , L0000642 , L0000643 , L0000644 ,
	L0000645 , L0000646 , L0000647 , L0000648 , L0000649 , L0000650 , L0000651 , L0000652 ,
	L0000653 , L0000654 , L0000655 , L0000656 , L0000657 , L0000658 , L0000659 , L0000660 ,
	L0000661 , L0000662 , L0000663 , L0000664 , L0000665 , L0000666 , L0000667 , L0000668 ,
	L0000669 , L0000670 , L0000671 , L0000672 , L0000673 , L0000674 , L0000675 , L0000676 ,
	L0000677 , L0000678 , L0000679 , L0000680 , L0000681 , L0000682 , L0000683 , L0000684 ,
	L0000685 , L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 ,
	L0000693 , L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 , L0000700 ,
	L0000701 , L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 , L0000708 ,
	L0000709 , L0000710 , L0000711 , L0000712 , L0000713 , L0000714 , L0000715 , L0000716 ,
	L0000717 , L0000718 , L0000719 , L0000720 , L0000721 , L0000722 , L0000723 , L0000724 ,
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L0000803 , L0000804 ,

L0000805 , L0000806 , L0000807 , L0000808 , L0000809 , L0000810 ,
L0000811 , L0000812 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000813 , L0000814 , L0000815 , L0000816 , L0000817 , L0000818 ,
L0000819 , L0000820 ,

L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 ,
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L0000963 , L0000964 ,

L0000965 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0000811 , L0000812 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0000813 , L0000814 , L0000815 , L0000816 , L0000817 , L0000818 ,
L0000819 , L0000820 ,

L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 ,
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L0000963 , L0000964 ,

L0000965 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(484416.4, 3719046.2, 470.5, 618.0, 0.0); (484272.8, 3718988.8, 475.2, 618.0, 0.0);
(484411.2, 3718988.6, 472.6, 618.0, 0.0); (484423.0, 3719169.4, 469.5, 618.0, 0.0);
(484263.4, 3719098.9, 473.9, 618.0, 0.0); (484177.4, 3719088.4, 482.1, 618.0, 0.0);
(484335.6, 3719168.3, 469.7, 618.0, 0.0); (484339.5, 3719182.7, 470.1, 618.0, 0.0);

(484505.8, 3719199.2, 466.2, 618.0, 0.0); (484469.4, 3719214.9, 468.2, 618.0, 0.0);
(484226.7, 3719238.5, 475.0, 618.0, 0.0); (484742.8, 3719204.7, 462.0, 603.0, 0.0);
(484870.9, 3719205.5, 461.9, 601.0, 0.0); (484688.0, 3719294.6, 462.9, 603.0, 0.0);
(484330.1, 3719411.8, 472.0, 618.0, 0.0); (484506.4, 3719415.6, 467.1, 618.0, 0.0);
(484271.3, 3719412.5, 474.0, 618.0, 0.0); (484467.8, 3719417.5, 468.4, 618.0, 0.0);
(484728.9, 3719248.8, 462.6, 603.0, 0.0); (484973.1, 3718737.1, 457.3, 601.0, 0.0);
(484036.2, 3718817.2, 486.6, 618.0, 0.0); (484325.5, 3718869.1, 472.1, 618.0, 0.0);
(484266.7, 3718810.3, 473.1, 618.0, 0.0); (484951.0, 3718554.3, 458.1, 601.0, 0.0);
(484812.1, 3718592.1, 462.0, 601.0, 0.0); (484467.5, 3718461.2, 468.6, 603.0, 0.0);
(484194.2, 3718334.5, 470.5, 603.0, 0.0); (484871.0, 3718279.7, 456.9, 601.0, 0.0);
(484870.0, 3718240.9, 457.0, 601.0, 0.0); (484870.0, 3718171.3, 453.5, 601.0, 0.0);
(484869.7, 3718203.3, 455.7, 455.7, 0.0); (484868.8, 3718120.9, 455.2, 455.2, 0.0);
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(484871.7, 3717960.2, 456.0, 456.0, 0.0); (484872.6, 3717943.6, 455.9, 455.9, 0.0);
(484872.6, 3717926.8, 455.9, 455.9, 0.0); (484872.1, 3717911.5, 455.7, 455.7, 0.0);
(484873.1, 3717897.2, 455.2, 455.2, 0.0); (484873.8, 3717867.5, 453.6, 453.6, 0.0);
(484873.6, 3717854.5, 452.8, 452.8, 0.0); (484873.1, 3717843.8, 452.5, 452.5, 0.0);
(484871.3, 3717830.8, 452.2, 452.2, 0.0); (484874.0, 3717818.6, 451.8, 451.8, 0.0);
(484873.8, 3717803.8, 451.3, 463.0, 0.0); (484874.1, 3717793.0, 451.0, 463.0, 0.0);
(484875.0, 3717765.4, 450.9, 464.0, 0.0); (484874.5, 3717753.9, 452.0, 464.0, 0.0);
(484874.1, 3717741.9, 453.2, 464.0, 0.0); (484873.8, 3717729.7, 454.1, 464.0, 0.0);
(484873.5, 3717718.7, 454.8, 464.0, 0.0); (484869.2, 3717668.0, 453.6, 464.0, 0.0);
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(484757.6, 3717601.0, 459.9, 463.0, 0.0); (484733.6, 3717602.7, 460.8, 463.0, 0.0);
(484707.7, 3717602.7, 461.4, 461.4, 0.0); (484652.5, 3717603.2, 460.9, 460.9, 0.0);
(484626.9, 3717604.7, 460.7, 460.7, 0.0); (484603.5, 3717603.8, 460.4, 460.4, 0.0);
(484579.3, 3717604.5, 460.4, 460.4, 0.0); (484557.6, 3717606.6, 460.2, 460.2, 0.0);
(484530.9, 3717605.2, 460.1, 460.1, 0.0); (484465.0, 3717664.1, 461.5, 494.0, 0.0);
(484437.6, 3717621.5, 462.1, 462.1, 0.0); (484362.7, 3717615.9, 462.1, 490.0, 0.0);
(484283.3, 3717612.7, 462.9, 518.0, 0.0); (484594.1, 3717519.6, 463.2, 463.2, 0.0);
(484751.8, 3717510.0, 462.3, 469.0, 0.0); (484560.8, 3717519.8, 462.8, 462.8, 0.0);

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    ( 484720.0, 3717510.2,     464.5,     469.0,       0.0);         ( 484299.4, 3717558.5,
    462.0,     525.0,       0.0);
    ( 484052.5, 3717549.2,     462.6,     603.0,       0.0);         ( 484022.0, 3717550.6,
    462.4,     603.0,       0.0);
    ( 483948.3, 3717569.9,     463.8,     603.0,       0.0);         ( 483640.8, 3717578.4,
    455.7,     603.0,       0.0);
    ( 483673.5, 3717728.4,     463.0,     603.0,       0.0);         ( 484027.7, 3718357.9,
    473.1,     603.0,       0.0);
    ( 483523.9, 3718981.1,     557.7,     603.0,       0.0);         ( 485148.4, 3719226.1,
    454.3,     458.0,       0.0);
    ( 484929.0, 3717946.4,     454.0,     454.0,       0.0);         ( 485179.5, 3718026.5,
    451.3,     451.3,       0.0);
    ( 484925.1, 3717823.4,     451.9,     451.9,       0.0);         ( 484758.7, 3719205.2,
    462.3,     601.0,       0.0);
    ( 484778.3, 3719206.5,     462.9,     601.0,       0.0);         ( 484796.2, 3719204.0,
    462.9,     601.0,       0.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery
Village\14073 O ***        01/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:21:32

                        PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                                (METERS)

    ( 484814.2, 3719205.5,     463.0,     601.0,       0.0);         ( 484833.5, 3719202.2,
    462.9,     601.0,       0.0);
    ( 484852.8, 3719203.5,     462.5,     601.0,       0.0);         ( 484995.9, 3719330.7,
    456.2,     598.0,       0.0);
    ( 485053.4, 3719308.9,     455.8,     598.0,       0.0);         ( 485098.3, 3719288.2,
    453.4,     598.0,       0.0);
    ( 485221.9, 3719140.3,     455.7,     458.0,       0.0);         ( 485345.6, 3718981.1,
    444.9,     452.0,       0.0);
    ( 485373.8, 3719049.1,     443.8,     458.0,
    0.0);
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14073 Discovery
Village\14073 O ***        01/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                        ***        14:21:32

                        PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  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
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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

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
```

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file:
ELSI_V9_ADJU\ELSI_v9.SFC Met
Version: 16216
Profile file:
ELSI_V9_ADJU\ELSI_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	-1.3	0.065	-9.000	-9.000	-999.	40.	18.2	0.23	2.69	1.00	0.40	78.	9.1	284.2	5.5
12	01	01	1	02	-4.2	0.092	-9.000	-9.000	-999.	67.	16.0	0.23	2.69	1.00	0.90	69.	9.1	283.8	5.5
12	01	01	1	03	-4.2	0.092	-9.000	-9.000	-999.	67.	16.0	0.23	2.69	1.00	0.90	286.	9.1	282.5	5.5
12	01	01	1	04	-4.2	0.092	-9.000	-9.000	-999.	67.	16.0	0.23	2.69	1.00	0.90	348.	9.1	282.5	5.5
12	01	01	1	05	-1.3	0.066	-9.000	-9.000	-999.	40.	18.2	0.23	2.69	1.00	0.40	17.	9.1	282.0	5.5
12	01	01	1	06	-4.2	0.092	-9.000	-9.000	-999.	67.	16.0	0.23	2.69	1.00	0.90	161.	9.1	282.0	5.5
12	01	01	1	07	-1.3	0.066	-9.000	-9.000	-999.	40.	18.2	0.23	2.69	1.00	0.40	273.	9.1	282.0	5.5
12	01	01	1	08	-3.6	0.091	-9.000	-9.000	-999.	66.	18.3	0.23	2.69	0.54	0.90	113.	9.1	283.8	5.5
12	01	01	1	09	39.6	0.087	0.358	0.016	40.	61.	-1.4	0.23	2.69	0.33	0.40	336.	9.1	285.9	5.5
12	01	01	1	10	110.7	0.206	0.740	0.007	127.	225.	-6.9	0.23	2.69	0.25	1.30	158.	9.1	291.4	5.5
12	01	01	1	11	161.7	0.105	1.203	0.005	374.	87.	-1.0	0.23	2.69	0.23	0.40	33.	9.1	297.0	5.5
12	01	01	1	12	185.5	0.271	1.535	0.005	676.	339.	-9.3	0.23	2.69	0.22	1.80	313.	9.1	298.8	5.5
12	01	01	1	13	183.9	0.219	1.828	0.005	1154.	247.	-4.9	0.23	2.69	0.22	1.30	250.	9.1	300.4	5.5

```
 12 01 01   1 14  156.6  0.266  1.869  0.005 1446.  330.    -10.4  0.23   2.69   0.23    1.80
 217.    9.1  301.4    5.5
 12 01 01   1 15  104.7  0.256  1.677  0.005 1562.  311.    -13.8  0.23   2.69   0.27    1.80
 248.    9.1  302.0    5.5
 12 01 01   1 16   32.7  0.319  1.147  0.005 1596.  433.    -85.9  0.23   2.69   0.36    2.70
 235.    9.1  302.0    5.5
 12 01 01   1 17  -15.5  0.190 -9.000 -9.000 -999.  208.     39.6  0.23   2.69   0.63    1.80
 46.    9.1  299.2    5.5
 12 01 01   1 18   -4.1  0.092 -9.000 -9.000 -999.   73.     16.2  0.23   2.69   1.00    0.90
 107.    9.1  294.9    5.5
 12 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23   2.69   1.00  999.00
 999.   -9.0  292.5    5.5
 12 01 01   1 20   -4.2  0.092 -9.000 -9.000 -999.   67.     16.1  0.23   2.69   1.00    0.90
 323.    9.1  290.4    5.5
 12 01 01   1 21   -8.8  0.133 -9.000 -9.000 -999.  116.     23.2  0.23   2.69   1.00    1.30
 34.    9.1  287.5    5.5
 12 01 01   1 22   -1.3  0.065 -9.000 -9.000 -999.   41.     18.1  0.23   2.69   1.00    0.40
 359.    9.1  286.4    5.5
 12 01 01   1 23   -1.3  0.065 -9.000 -9.000 -999.   40.     18.1  0.23   2.69   1.00    0.40
 351.    9.1  285.4    5.5
 12 01 01   1 24   -4.2  0.092 -9.000 -9.000 -999.   67.     16.0  0.23   2.69   1.00    0.90
 11.    9.1  284.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 12 01 01 01    9.1 1   78.    0.40  -999.0   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\14073 Discovery
Village\14073 O ***        01/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        14:21:32

                     PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5 YEARS FOR
                   SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000493    , L0000494    ,
                                  L0000495    , L0000496    , L0000497    ,
                L0000498    , L0000499    , L0000500    , L0000501    , L0000502    ,
                L0000503    , L0000504    , L0000505    ,
                L0000506    , L0000507    , L0000508    , L0000509    , L0000510    ,
                L0000511    , L0000512    , L0000513    ,
                L0000514    , L0000515    , L0000516    , L0000517    , L0000518    ,
                L0000519    , L0000520    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF DPM      IN
                                    MICROGRAMS/M**3                          **

      X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)   Y-COORD
      (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
        484416.44    3719046.20        0.00086                      484272.79
        3718988.85        0.00096
        484411.20    3718988.57        0.00156                      484423.05
        3719169.44        0.00044
        484263.41    3719098.86        0.00039                      484177.39
        3719088.38        0.00032
        484335.65    3719168.34        0.00032                      484339.51
        3719182.68        0.00030
```

484505.77 3719199.22 0.00039 484469.37
3719214.93 0.00034
484226.67 3719238.53 0.00020 484742.80
3719204.74 0.00017
484870.86 3719205.50 0.00013 484688.05
3719294.63 0.00015
484330.09 3719411.78 0.00013 484506.40
3719415.60 0.00012
484271.32 3719412.55 0.00012 484467.85
3719417.51 0.00012
484728.88 3719248.83 0.00016 484973.12
3718737.08 0.00029
484036.24 3718817.22 0.00020 484325.51
3718869.12 0.00179
484266.74 3718810.35 0.00078 484950.98
3718554.29 0.00036
484812.07 3718592.07 0.00033 484467.47
3718461.17 0.00027
484194.23 3718334.48 0.00016 484871.02
3718279.73 0.00096
484870.03 3718240.94 0.00092 484870.02
3718171.33 0.00090
484869.68 3718203.33 0.00089 484868.83
3718120.87 0.00084
484868.49 3718085.47 0.00082 484870.69
3718055.50 0.00088
484871.71 3718028.07 0.00090 484870.52
3717999.96 0.00085
484871.71 3717960.17 0.00088 484872.56
3717943.57 0.00090
484872.56 3717926.81 0.00089 484872.11
3717911.55 0.00086
484873.12 3717897.16 0.00089 484873.80
3717867.52 0.00091
484873.63 3717854.48 0.00090 484873.12
3717843.82 0.00088
484871.26 3717830.78 0.00082 484873.97
3717818.58 0.00090
484873.80 3717803.85 0.00089 484874.14
3717793.01 0.00090
484874.99 3717765.41 0.00092 484874.48
3717753.89 0.00090
484874.14 3717741.87 0.00088 484873.80
3717729.68 0.00087
484873.46 3717718.67 0.00085 484869.23
3717668.03 0.00076
484870.41 3717641.95 0.00080 484869.91
3717618.92 0.00084
484806.57 3717603.00 0.00072 484783.71
3717602.16 0.00071
484757.63 3717600.97 0.00073 484733.58
3717602.66 0.00070
484707.67 3717602.66 0.00072 484652.46
3717603.17 0.00071
484626.89 3717604.70 0.00069 484603.52
3717603.85 0.00071
484579.31 3717604.53 0.00070 484557.63
3717606.56 0.00066
484530.87 3717605.20 0.00069 484465.00
3717664.14 0.00029
484437.56 3717621.46 0.00048 484362.73
3717615.95 0.00054
484283.27 3717612.67 0.00059 484594.08
3717519.61 0.00035
484751.82 3717510.01 0.00031 484560.79
3717519.85 0.00035

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000493 , L0000494 , L0000495 , L0000496 , L0000497 ,
L0000498 , L0000499 , L0000500 , L0000501 , L0000502 ,
L0000503 , L0000504 , L0000505 ,
L0000506 , L0000507 , L0000508 , L0000509 , L0000510 ,
L0000511 , L0000512 , L0000513 ,
L0000514 , L0000515 , L0000516 , L0000517 , L0000518 ,
L0000519 , L0000520 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
483673.54	3717728.38	0.00017	484027.73	3718357.88	0.00012
483523.93	3718981.10	0.00002	485148.37	3719226.06	0.00007
484929.05	3717946.39	0.00052	485179.54	3718026.53	0.00012
484925.15	3717823.41	0.00058	484758.70	3719205.23	0.00016
484778.26	3719206.46	0.00016	484796.22	3719203.96	0.00015
484814.20	3719205.49	0.00014	484833.54	3719202.16	0.00014
484852.81	3719203.47	0.00013	484995.91	3719330.67	0.00008
485053.40	3719308.94	0.00008	485098.27	3719288.25	0.00007
485221.88	3719140.30	0.00007	485345.61	3718981.15	0.00007
485373.75	3719049.08	0.00006			

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00179	AT (484325.51, 3718869.12, 472.07, 618.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00156	AT (484411.20, 3718988.57, 472.56, 618.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00096	AT (484871.02, 3718279.73, 456.88, 601.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00096	AT (484272.79, 3718988.85, 475.17, 618.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00092	AT (484874.99, 3717765.41, 450.89, 464.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00092	AT (484870.03, 3718240.94, 457.00, 601.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00091	AT (484873.80, 3717867.52, 453.59, 453.59, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00090	AT (484871.71, 3718028.07, 456.94, 456.94, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00090	AT (484873.97, 3717818.58, 451.75, 451.75, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00090	AT (484873.63, 3717854.48, 452.84, 452.84, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV 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 1763 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 884 Calm Hours Identified

A Total of 879 Missing Hours Identified (2.00 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 1338 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

ME W187   1338   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

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APPENDIX 2.3:

RISK CALCULATIONS

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario - Construction Activity

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01653	1.65E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-05	8.7E-06	5.0E+00	1.4E-03	3.3E-03							
TOTAL								8.7E-06			3.3E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

8.66

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	260
exposure duration (years)	4.50
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	1.00
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00017	1.70E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	9.3E-08	4.0E-08	5.0E+00	1.4E-03	3.4E-05							
TOTAL								4.0E-08			3.4E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.04

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	13.23
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00017	1.70E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.3E-08	6.5E-09	5.0E+00	1.4E-03	3.4E-05							
TOTAL								6.5E-09			3.4E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.01

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 8.71

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	2.76E-02	2.76E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.5E-06	3.1E-07	5.0E+00	1.4E-03	5.5E-03							
	TOTAL								3.1E-07 0.31			5.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	260
exposure duration (years)	4.50
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Table 6
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
9-Year School Child Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	($mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	2.55E-03	2.55E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	7.2E-07	1.5E-07	5.0E+00	1.4E-03	5.1E-04							
	TOTAL								1.5E-07 0.15			5.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	180
exposure duration (years)	4.50
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
age sensitivity factor (ages 4-13)	3

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00096	9.60E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.3E-07	1.1E-08	5.0E+00	1.4E-03	1.9E-04							
TOTAL								1.1E-08			1.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00096	9.60E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.0E-06	2.6E-07	5.0E+00	1.4E-03	1.9E-04							
TOTAL								2.6E-07			1.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00096	9.60E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.3E-07	2.4E-07	5.0E+00	1.4E-03	1.9E-04							
TOTAL								2.4E-07			1.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00096	9.60E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.4E-07	3.7E-08	5.0E+00	1.4E-03	1.9E-04							
TOTAL								3.7E-08			1.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.04										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 0.54

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	($mg/kg/day$)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	1.79E-03	1.79E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.8E-07	1.1E-07	5.0E+00	1.4E-03	3.6E-04							
	TOTAL								1.1E-07 0.11			3.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Table 6
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
9-Year School Child Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	3.50E-04	3.50E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	9.9E-08	4.0E-08	5.0E+00	1.4E-03	7.0E-05							
	TOTAL								4.0E-08			7.0E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.04										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	180
exposure duration (years)	9
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
age sensitivity factor (ages 4-13)	3

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