MUSCOY WAREHOUSE HEALTH RISK ASSESSMENT ANALYSIS

County of San Bernardino

November 17, 2023

Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

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EXECUTIVE SUMMARY

The purpose of this health risk assessment analysis is to provide an assessment of the impacts resulting from the operation of the proposed Muscoy Warehouse project and to identify measures that may be necessary to reduce potentially significant impacts.

The analysis contained in this report shows that none of the existing sensitive receptors, within the vicinity of the proposed Muscoy Warehouse project, would be exposed to a cancer risk in excess of 10 in a million from diesel particulate matter (DPM) mobile source emissions from the operation of the project. Impacts are considered to be less than significant. No mitigation is required.

The operational health risk impacts for non-cancer related impacts are less than 1.0; therefore, they are also considered to be less significant. No mitigation is required.

1. INTRODUCTION AND SETTING

This section describes the purpose of this health risk assessment, project location, proposed development, and study area.

PURPOSE AND OBJECTIVES

This study was performed to address the possibility of cancer and non-cancer risk from project-related mobile source diesel emissions. The objectives of the study include:

- discussion of the cancer risk thresholds of significance
- analysis of the operations related cancer risk from diesel emissions
- recommendations for mitigation measures

The County of San Bernardino is the lead agency for this health risk assessment, in accordance with the California Environmental Quality Act authorizing legislation. Although this is a technical report, every effort has been made to write the report clearly and concisely. To assist the reader with terms unique to air quality, a definition of terms has been provided in Appendix A.

PROJECT LOCATION

The 4.67-acre project site is located southeast of the Cajon Boulevard and June Street intersection in the County of San Bernardino, California. The project site is currently zoned light industrial and is undeveloped. A vicinity map showing the project location is provided on Figure 1.

PROJECT DESCRIPTION

The proposed project involves construction and operation of 92,040 square feet of warehousing. Vehicular access is proposed via two driveways with one on Cajon Boulevard and the other on June Street. Figure 2 illustrates the proposed site plan.

PHASING AND TIMING

The proposed project is anticipated to be operational in 2025.

SENSITIVE RECEPTORS IN PROJECT VICINITY

Sensitive receptors include residential land uses, schools, day care centers, and other places where people reside, including prisons. The nearest sensitive receptors to the project site are: the existing single-family residential uses located adjacent to the south and approximately 5 feet (~2 meters) west and 90 feet (~27 meters) northwest, across June Street, of the project site.

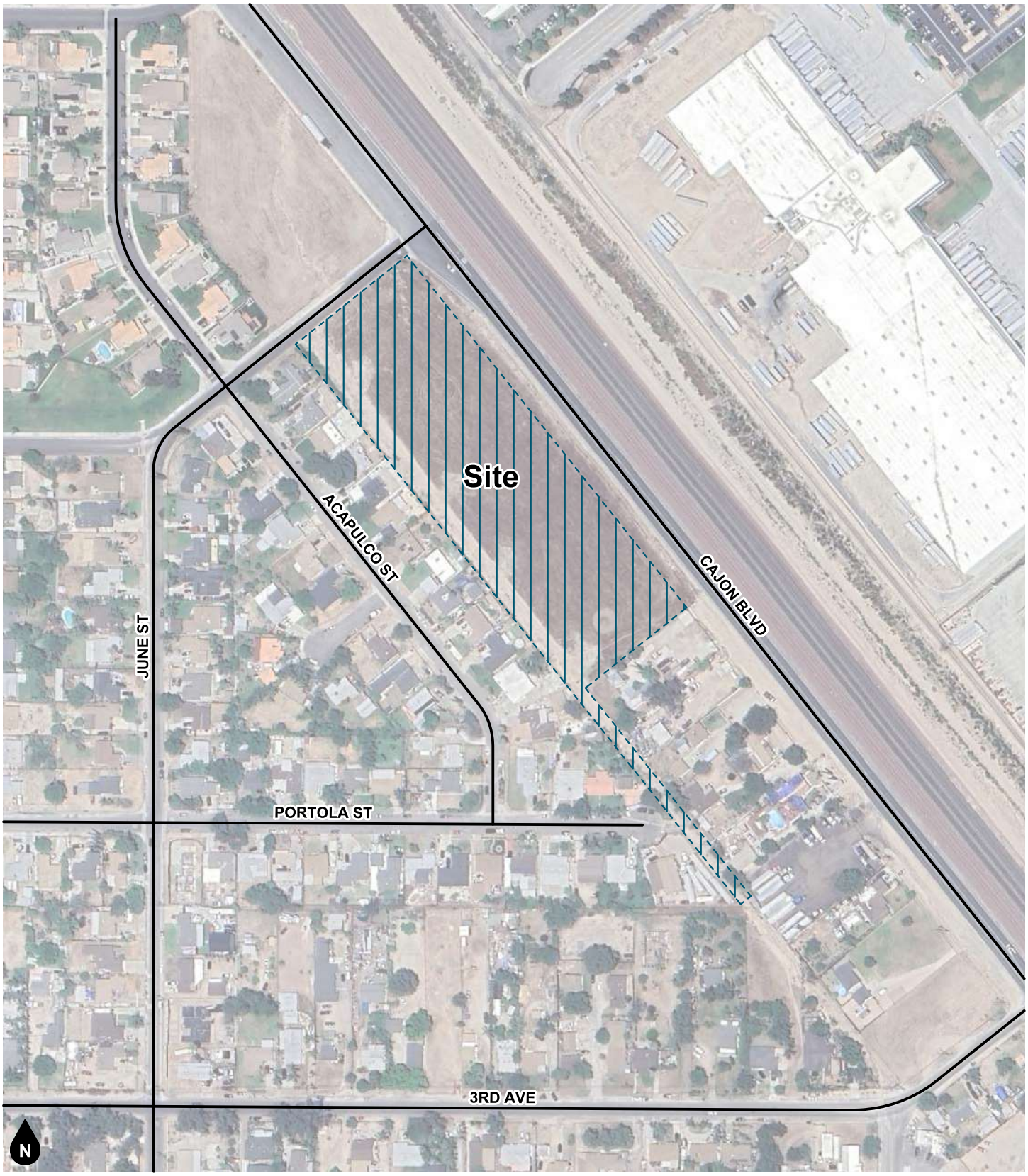


Figure 1
Project Location Map

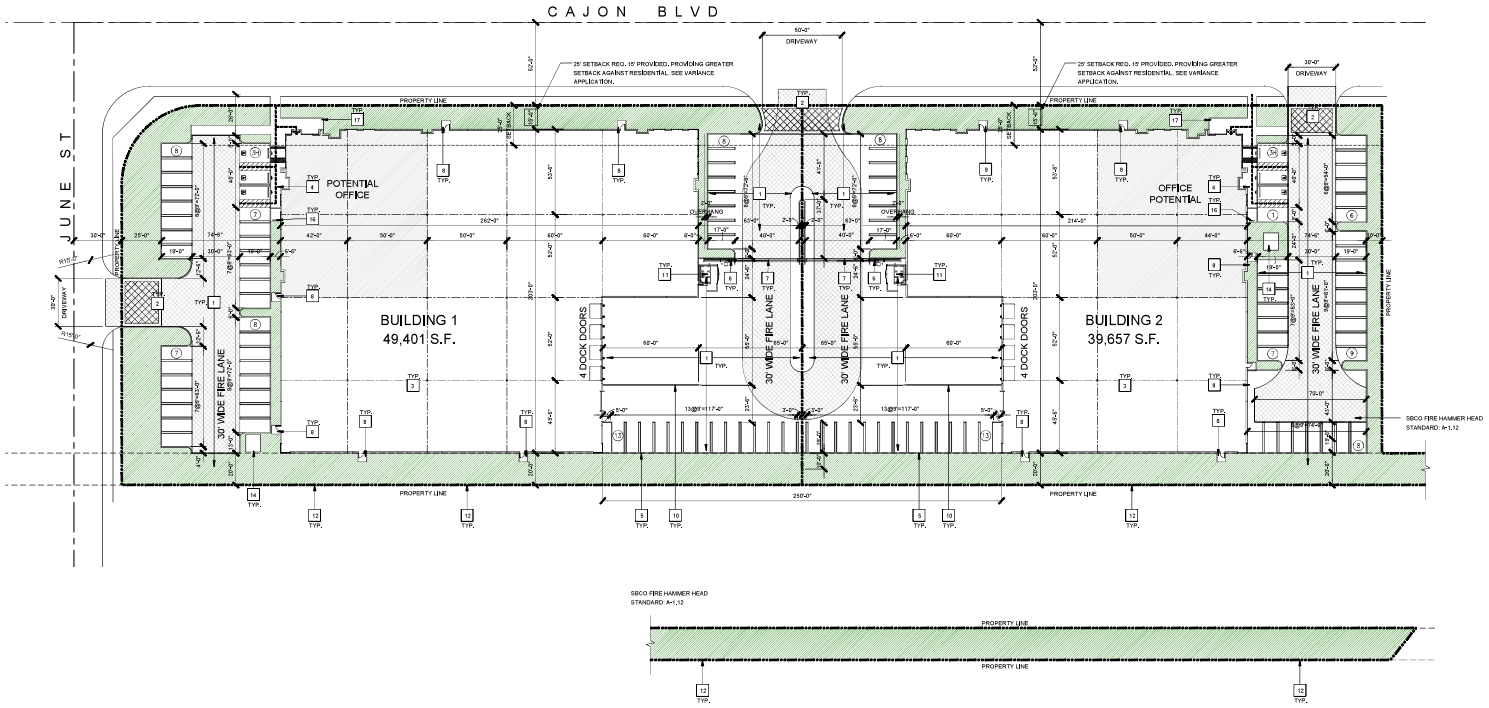


Figure 2
Site Plan

2. POLLUTANTS AND REGULATORY SETTING

POLLUTANTS

Pollutants are generally classified as either criteria pollutants or non-criteria pollutants. Federal ambient air quality standards have been established for criteria pollutants, whereas no ambient standards have been established for non-criteria pollutants. For some criteria pollutants, separate standards have been set for different periods. Most standards have been set to protect public health. For some pollutants, standards have been based on other values (such as protection of crops, protection of materials, or avoidance of nuisance conditions). A summary of federal and state ambient air quality standards is provided in the Regulatory Framework section.

Toxic Air Contaminants

In addition to the above-listed criteria pollutants, toxic air contaminants (TACs) are another group of pollutants of concern. Sources of toxic air contaminants include industrial processes such as petroleum refining and chrome plating operations, commercial operations such as gasoline stations and dry cleaners, and motor vehicle exhaust. Cars and trucks release at least forty different toxic air contaminants. The most important of these toxic air contaminants, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to toxic air contaminants can result from emissions from normal operations as well as from accidental releases. Health effects of toxic air contaminants include cancer, birth defects, neurological damage, and death.

Toxic air contaminants are less pervasive in the urban atmosphere than criteria air pollutants, however they are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. There are hundreds of different types of toxic air contaminants with varying degrees of toxicity. Sources of toxic air contaminants include industrial processes, commercial operations (e.g., gasoline stations and dry cleaners), and motor vehicle exhaust.

According to the 2013 California Almanac of Emissions and Air Quality, the majority of the estimated health risk from toxic air contaminants can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). Diesel particulate matter is a subset of PM2.5 because the size of diesel particles are typically 2.5 microns and smaller. The identification of diesel particulate matter as a toxic air contaminant in 1998 led the California Air Resources Board (CARB) to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles in September 2000. The plan's goals are a 75-percent reduction in diesel particulate matter by 2010 and an 85-percent reduction by 2020 from the 2000 baseline. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM, which includes carbon particles or "soot". Diesel exhaust also contains a variety of harmful gases and over 40 other cancer-causing substances. California's identification of diesel particulate matter as a toxic air contaminant was based on its potential to cause cancer, premature deaths, and other health problems. Exposure to diesel particulate matter is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Overall, diesel engine emissions are responsible for the majority of California's potential airborne cancer risk from combustion sources.

The California Air Resources Board (CARB) have monitoring networks that measure ambient concentrations of certain TACs that are associated with important health-related effects and are present in appreciable concentrations in the area. The CARB publishes annual Statewide, air basin, and location-specific summaries of the concentration levels of several TACs and their resulting cancer risks[1]. The most recent summary is the CARB Air Quality Almanac for 2013 (CARB 2013). The Almanac presents the relevant concentration and

[1] Cancer risk is expressed as a probability of an individual out of a population of one million contracting cancer via a continuous exposure to TACs over a 30-year lifetime.

cancer risk data for the ten TACs that pose the most substantial health risk in California based on available data. These TACs are: acetaldehyde, benzene, 1,3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, and perchloroethylene. DPM is not directly measured but is indirectly estimated based on fine particulate matter measurements and special studies on the chemical speciation of ambient fine particulate data along with receptor modeling techniques. CARB showed that Diesel PM emissions decreased 37 percent from 2000 to 2010 primarily as a result of more stringent emissions standards and the introduction of cleaner burning diesel fuel. Emissions from diesel mobile sources are projected to continue to decrease after 2010. Overall, statewide emissions are forecasted to decline by 71 per cent between 2000 and 2035. CARB estimates that 78 percent of the known statewide cancer risks are from the top 10 outdoor air toxics in addition to DPM.

Estimates of total cancer risk Statewide have shown a steady decline from the early 1990s when the cancer risk from DPM was estimated to be 1,696 in one million. By the year 2000, the cancer risk was estimated to be 1,005 in one million or a reduction of 41 percent. Reductions in cancer risk are expected to continue into the future as new emission controls are implemented that further reduce DPM emissions, the major component of the total airborne cancer risk.

According to the SCAQMD's MATES-V study, the project area has an estimated, ambient cancer risk of 410 in one million. In comparison, the average cancer risk for San Bernardino County is 439 in one million.

Asbestos

Asbestos is listed as a TAC by the CARB and as a Hazardous Air Pollutant by the United States Environmental Protection Agency (EPA). Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. Naturally occurring asbestos is not present in San Bernardino County. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located in is located at Asbestos Mountain in the San Jacinto Valley; approximately 63 miles southeast of the site. Due to the distance to the nearest natural occurrences of asbestos, the project site is not likely to contain asbestos.

REGULATORY SETTING

The proposed project is addressed through the efforts of various international, federal, state, regional, and local government agencies. These agencies work jointly, as well as individually, to improve air quality through legislation, regulations, planning, policy making, education, and a variety of programs. The agencies responsible for improving the air quality are discussed below.

Federal – United States Environmental Protection Agency (EPA)

The EPA is responsible for setting and enforcing the National Ambient Air Quality Standards (NAAQS) for atmospheric pollutants. It regulates emission sources that are under the exclusive authority of the federal government, such as aircraft, ships, and certain locomotives. The National Ambient Air Quality Standards (NAAQS) pollutants were identified using medical evidence.

As part of its enforcement responsibilities, the EPA requires each state with federal nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the national standards. The State Implementation Plan (SIP) must integrate federal, state, and local components and regulations to identify specific measures to reduce pollution, using a combination of performance standards and market-based programs within the timeframe identified in the State Implementation Plan (SIP).

State – California Air Resources Board

The CARB, which is a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

CARB Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling adopts new section 2485 within Chapter 10, Article 1, Division 3, title 13 in the California Code of Regulations. The measure limits the idling of diesel vehicles (i.e., commercial trucks over 10,000 pounds) to reduce emissions of toxics and criteria pollutants. The driver of any vehicle subject to this section: (1) shall not idle the vehicle's primary diesel engine for greater than five minutes at any location; and (2) shall not idle a diesel-fueled auxiliary power system for more than five minutes to power a heater, air conditioner, or any ancillary equipment on the vehicle if it has a sleeper berth and the truck is located within 100 feet of a restricted area (homes and schools).

CARB Requirements to Reduce Idling Emissions from New and In-Use Trucks. Amendments were made to Title 13 in California Code of Regulations in Sections 1956.8, 2404, 2424, 2425, and 2485. The amendment states: "all new 2008 and subsequent model-year heavy-duty diesel engines shall be equipped with an engine shutdown system that automatically shuts down the engine after 300 seconds of continuous idling operation once the vehicle is stopped, the transmission is set to 'neutral' or 'park,' and the parking brake is engaged. If the parking brake is not engaged, then the engine shutdown system shall shut down the engine after 900 seconds of continuous idling operation once the vehicle is stopped and the transmission is set to 'neutral' or 'park.'" There are a few conditions where the engine shutdown system can be overridden to prevent engine damage. Any project trucks manufactured after 2008 would be consistent with this rule, which would ultimately reduce air emissions.

Statewide Truck and Bus Regulation (Regulation to Reduce Emissions of DPM, Oxides of Nitrogen and Other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles, Title 13, California Code of Regulations, Section 2025). On December 12, 2008, the ARB approved this regulation to reduce emissions from existing on-road diesel trucks and buses operating in California. This regulation applies to all on-road heavy-duty diesel-fueled vehicles with a gross vehicle weight rating greater than 14,000 pounds, agricultural yard trucks with off-road certified engines, and certain diesel fueled shuttle vehicles of any gross vehicle weight rating. Out-of-state trucks and buses that operate in California are also subject. Under the regulation, older, heavier trucks (i.e., those with pre-2000-year engines and a gross vehicle weight rating greater than 26,000 pounds), are required to have installed a particulate matter filter and must be replaced with a 2010 engine between 2015 and 2020, depending on the model year. By 2015, all heavier pre-1994 trucks must be upgraded to 2010 engines and newer trucks are thereafter required to be replaced over the next eight years. Older, more polluting trucks are required to be replaced first, while trucks that already have relatively clean 2007-2009 engines are not required to be replaced until 2023. Lighter trucks (14,001-26,000 pounds) must adhere to a similar schedule. Furthermore, nearly all trucks that are not required under the Truck and Bus Regulation to be replaced by 2015 were required to be upgraded with a particulate matter filter by that date.

The CARB is also responsible for regulations pertaining to toxic air contaminants. The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, 1987, Connelly) was enacted in 1987 as a means to establish a formal air toxics emission inventory risk quantification program. AB 2588, as amended, establishes a process that requires stationary sources to report the type and quantities of certain substances their facilities routinely release into the air basin. The data is ranked by high, intermediate, and low categories, which are determined by: the potency, toxicity, quantity, volume, and proximity of the facility to nearby receptors.

AB 617 Nonvehicular air pollution: criteria air pollutants and toxic air contaminants

This bill requires the state board to develop a uniform statewide system of annual reporting of emissions of criteria air pollutants and toxic air contaminants for use by certain categories of stationary sources. The bill requires those stationary sources to report their annual emissions of criteria air pollutants and toxic air contaminants, as specified. This bill required the state board, by October 1, 2018, to prepare a monitoring plan regarding technologies for monitoring criteria air pollutants and toxic air contaminants and the need for and benefits of additional community air monitoring systems, as defined. The bill requires the state board to select, based on the monitoring plan, the highest priority locations in the state for the deployment of community air monitoring systems. The bill requires an air district containing a selected location, by July 1, 2019, to deploy a system in the selected location. The bill would authorize the air district to require a stationary source that emits air pollutants in, or that materially affect, the selected location to deploy a fence-line monitoring system, as defined, or other specified real-time, on-site monitoring. The bill authorized the state board, by January 1, 2020, and annually thereafter, to select additional locations for the deployment of the systems. The bill would require air districts that have deployed a system to provide to the state board air quality data produced by the system. By increasing the duties of air districts, this bill would impose a state-mandated local program. The bill requires the state board to publish the data on its Internet Web site.

Regional

The project site is located in the County of San Bernardino, which is part of the South Coast Air Basin (SCAB) that includes all of Orange County as well as the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The South Coast Air Basin is located on a coastal plain with connecting broad valleys and low hills to the east. Regionally, the South Coast Air Basin is bounded by the Pacific Ocean to the southwest and high mountains to the east forming the inland perimeter.

SCAQMD

The SCAQMD is the agency principally responsible for comprehensive air pollution control in the South Coast Air Basin. To that end, as a regional agency, the SCAQMD works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments and cooperates actively with all federal and state agencies.

In addition to attaining and maintaining air quality standards set by State and Federal Governments, the District is also responsible for ensuring that toxic air pollutants do not pose a nuisance or significant health threat to the surrounding community. Every year, the State's Air Toxics Hot Spots program (AB 2588) requires the District to quantify and assess health risks from subject facilities to nearby residents, notify affected residents of significant risks, and to reduce those significant health risks to acceptable levels.

SCAQMD Rule 2305

The Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program aims to reduce nitrogen oxide and diesel emissions associated with warehouses, help meet federal standards and improve public health. The WAIRE Program is an indirect source rule that regulates warehouse facilities to reduce emissions from the goods movement industry. Owners and operators of warehouses that have 100,000 square feet or more of indoor floor space in a single building must comply with the WAIRE Program. WAIRE is a menu-based point system in which warehouse operators are required to earn a specific number of points every year. The yearly number of points required is based on the number of trucks trips made to and from the warehouse each year, with larger trucks such as tractors or tractor-trailers multiplied by 2.5. Warehouse operators may be exempt from parts of the rule if they operate less than 50,000 square feet of warehousing activities, if the number of points required is less than 10, or if the WAIRE menu action chosen under performs due to circumstances beyond the operator's control, such as a manufacturer defect. SCAQMD Rule 316 establishes fees to fund Rule 2305 compliance activities.

Health Risk Significant Thresholds

According to the SCAQMD CEQA Handbook, any project that has the potential to expose the public to toxic air contaminants in excess of the following thresholds would be considered to have a significant air quality impact:

- If the Maximum Incremental Cancer Risk (MICR) is 10 in one million or greater; or
- Toxic air contaminants from the proposed project would result in a Hazard Index increase of 1 or greater.

In order to determine if the proposed project may have a significant impact related to hazardous air pollutants (HAP), the Health Risk Assessment Guidance for analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, (Diesel Analysis), prepared by SCAQMD, August 2003, recommends that if the proposed project is anticipated to create hazardous air pollutants through stationary sources or regular operations of diesel trucks on the project site, then the proximity of the nearest receptors to the source of the hazardous air pollutants and the toxicity of the hazardous air pollutants should be analyzed through a comprehensive facility-wide health risk assessment (HRA).

As determined in the *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal. 4th 369 (CBIA) case the California Supreme Court determined that CEQA does not generally require an impact analysis of the existing environmental conditions on the future residents of a proposed project and generally only requires an analysis of the proposed project's impact on the environment. However, the CBIA case also stated that when a proposed project brings development and people into an area already subject to specific hazards and the new development/people exacerbate the existing hazards, then CEQA requires an analysis of the hazards and the proposed project's effect in terms of increasing the risks related to those hazards. Regarding air quality hazards, TACs are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. As such, if a proposed project would not exacerbate pre-existing hazards (e.g., TAC health risks) then an analysis of those hazards and the proposed project's effect on increasing those hazards is not required.

However, the project is a warehouse use and will be a source of operational toxic air contaminants; therefore, an HRA was conducted.

3. DIESEL EMISSIONS HEALTH RISK ASSESSMENT

The proposed project would generate toxic air contaminant emissions from diesel truck emissions created by the on-going operations of the proposed project.

According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30-year lifetime will contract cancer, based on the use of revised Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology.

A health risk assessment requires the completion and interaction of four general steps:

(1) Quantify project-generated TAC emissions.
(2) Identify nearby ground-level receptor locations that may be affected by the emissions (including any special sensitive receptor locations such as residences, schools, hospitals, convalescent homes, and daycare centers).
(3) Perform air dispersion modeling analyses to estimate ambient pollutant concentrations at each receptor location using project TAC emissions and representative meteorological data to define the transport and dispersion of those emissions in the atmosphere.
(4) Characterize and compare the calculated health risks with the applicable health risk significance thresholds.

EMISSIONS INVENTORY DEVELOPMENT

Important issues that affect the dispersion modeling include the following: (1) Model Selection, (2) Source Treatment, (3) Meteorological Data, and (4) Receptor Grid. Each of these issues is addressed below.

Emission Source Estimates – DPM for Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2021 emissions factor model. Truck mix information was obtained from the *Muscoy Warehouse (SWC Cajon/June) Transportation Screening Assessment* (Ganddini, September 22, 2023) ("TSA").

Four pieces of information are required to generate the mobile source emissions from the proposed project:

- Number of vehicle trips for each component of the proposed project;
- Types of vehicles that access the proposed project (passenger car vs. heavy-duty truck and gasoline vs. diesel);
- The allocation of the vehicle trips to each building that comprises the proposed project; and
- Estimate of the vehicle emission factors for estimating exhaust and idling emissions.

Estimate of Vehicle Trips and Vehicle Types

The TSA showed the project is expected to generate approximately 443 (non-passenger car equivalents) vehicle trips per day. Of those vehicle trips, 418 are automobile round trips, 8 are 2-axle truck round trips, 5 are 3-axle truck round trips, and 12 are 4+-axle truck round trips per day. The total number of project truck trips per day is 25.

Estimate of Emission Factors

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2021 mobile source emission model. PM2.5 exhaust emissions were used as a surrogate for DPM. The emissions factors were derived for San Bernardino County for year 2025.

Emissions factors were estimated to establish the emissions generated while the vehicles travel off-site, along travel links from the entrance/exit driveway around the parking lot, and while idling at the entrance/exit gate. All vehicles were assumed to travel on-site at a speed of 10 miles per hour. Off-site, the speeds along the roads were anticipated to average 35 miles per hour. Delivery vehicles were assumed to idle for a maximum of 15 minutes per vehicle per day (5 minutes per location: at the entrance and exit driveways and at the loading docks), in keeping with the CARB Air Toxic Control Measure (ATCM), which regulates truck idling time (CARB 2005). The four different sets of emissions factors used in this assessment are detailed in Table 1. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2025 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle "big rig" trucks). This is due to the CARB emissions' requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

Emission Source Characterization

Each of the emission source types described above also requires geometrical and emission release specifications for use in the air dispersion model. An average truck height of 13.5 feet and average truck width of 8.5 feet were entered into the haul road calculator in AERMOD in order to calculate the plume height and release height for the line sources. Table 2 provides a summary of the assumptions used to configure the various emission sources. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 2:

- Point source: A single, identifiable, local source of emissions; it is approximated in the AERMOD air dispersion model as a mathematical point in the modeling region with a location and emission characteristics such as height of release, temperature, etc., for example, a truck idle location where emissions are sourced from the truck's exhaust stack while the vehicle is stationary.

- Line source: A series of volume sources along a path, for example, vehicular traffic volumes along a roadway.

Figure 3 provides the location of the project buildings, DPM emission source locations, and the locations of the nearest sensitive receptors (the existing single-family residential uses located off of Acapulco Street adjacent to the southwest, south of Cajon Boulevard to the west and east of the project site). Sensitive receptors are shown as orange triangles labeled 1 through 9. The direction of on-site and off-site truck travel was obtained from the site plan and the TSA.

RECEPTOR NETWORK

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations surrounding the project. Receptors were located at the closest existing sensitive receptors surrounding the proposed project (as detailed above). In addition, to ensure that impacts to all receptors in the project vicinity were captured, the identified sensitive receptor locations were supplemented by the specification of a modeling grid that extended around the proposed project to identify other potential locations of impact. As stated above, the locations of the receptors are shown as orange triangles on Figure 3.

DISPERSION MODELING

The next step in the assessment process utilizes the emissions inventory along with a mathematical air dispersion model and representative meteorological data to calculate impacts at the various receptor locations. The dispersion model used in this assessment is described below.

Model Selection

The assessment of air quality and health risk impacts from pollutant emissions from this project applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air quality impact analyses. AERMOD predicts pollutant concentrations from point, area, volume, line, and flare sources with variable emissions in terrain from flat to complex with the inclusion of building downwash effects from buildings on pollutant dispersion. It captures the essential atmospheric physical processes and provides reasonable estimates over a wide range of meteorological conditions and modeling scenarios. AERMOD View Version 11.2.0, EPA version No. 22112, was utilized for this analysis.

General Model Assumptions

A summary of Emission Configurations is shown in Table 2. The basic options used in the dispersion modeling are summarized in Table 3.

As indicated in Table 3 the analysis takes into account the effects of building downwash on the dispersion of emissions from the various sources located on the project's property. Building downwash occurs when the aerodynamic turbulence, induced by nearby buildings, causes pollutants emitted from an elevated source to be mixed rapidly toward the ground (downwash), resulting in potentially higher ground-level concentrations than if the buildings were not present. The AERMOD dispersion model contains algorithms to account for building downwash effects. The required information includes the location of the emission source; the location of adjacent buildings; and the building geometry in terms of length, width, and height. For purposes of this analysis, the emission source and building locations were taken from the project site plan. The proposed building geometries were obtained from the project plans, with an estimated building height of 75 feet for the warehouse buildings.

Meteorological Data

Meteorological data (processed with the ADJ_U option) from the Air District's Fontana monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site from January 1, 2012 to December 31, 2016 by the SCAQMD. The SCAQMD processed the data for input to the model. The data was obtained at SCAQMD's https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod (see Figure 4).

ESTIMATION OF HEALTH RISKS

Health risks from diesel particulate matter are twofold. First, diesel particulate matter is a carcinogen according to the State of California. Second, long-term chronic exposure to diesel particulate matter can cause health effects to the respiratory system. Each of these health risks is discussed below.

Cancer Risks

According to the *Risk Assessment Guidelines: Guidance Manual for Preparation of Health Risk Assessments*, released by the Office of Environmental Health Hazard Assessment (OEHHA) in February 2015 and formally adopted in March 2015, the residential inhalation dose for cancer risk assessment should be calculated using the following formula:

[Dose-air (mg/(Kg-day)]*Cancer Potency*[1x10^{-6}] = Potential Cancer Risk

Where:
Cancer Potency Factor = 1.1
Dose-inh = (C¬air * DBR * A * EF * ED *ASF*FAH* 10-6) / AT

Where:

Cair [Concentration in air (µg/m^3)] = (Calculated by AERMOD Model)

DBR [Daily breathing rate (L/kg body weight – day)] = 261 for adults, 572 for children, and 1,090 for infants, and 361 for 3rd trimester per SCAQMD Permit Application Package "N" Table 4.1 D guidance.

A [Inhalation absorption factor] = 1

EF [Exposure frequency (days/year)] = 350

ED [Exposure duration (years)] = 30 for adults (for an individual who is an adult at opening year), 14 for children (from 2-16 years), 14 for adults (from 16-30 years), 2 for infants, and 1 for 3rd Trimester

ASF [Age sensitivity factor) = 10 for 3rd trimester to 2 years of age, 3 for 2 to 16 years of age, and 1 for 16 to 30 years of age

FAH [Fraction of time spent at home] = 1 for 3rd trimester to 2 years of age, 1 for 2 to 16 years of age, and 0.73 for 16 to 30 years of age

10^6 [Micrograms to milligrams conversion]

AT [Average time period over which exposure is averaged in days] = 25,550

The model run results are shown in Appendix B. Figure 5 illustrates the cancer risk to the most affected age-group, children (2-16 years).

Table 4 shows the cancer risk for the unborn child during the 3rd trimester (0.25-Year), Table 5 shows the cancer risk to infants (0-2 years), Table 6 shows the cancer risk to children ages 2 to 16 years and Table 7 shows the cancer risk as that child becomes an adult (years 16-30). The highest cancer risk corresponds to children 2-16 years (see Table 6), and is at receptor 4, with a maximum risk of 0.449 in one million. The maximum 3rd trimester (0.25-year) cancer risk is at receptors 4 and 6; with a maximum cancer risk of 0.017 in a million. The highest infant (0-2 years) cancer risk is at receptor 4; with a maximum risk of 0.407 in one million. The highest adult (16-30 years) cancer risk is also at receptor 4; with a maximum risk of 0.050 in one million. Therefore, no infants, children or adults are exposed to cancer risks in excess of 10 in a million.

The assessment of cancer-related health risk to sensitive receptors within the project vicinity is based on the following most-conservative scenario:

An unborn child in its 3rd trimester is potentially exposed to DPM emissions (via exposure of the mother) during the opening year. That child is born opening year and then remains at home for the entire first two years of life. From age 2 to 16, the child remains at home 100 percent of the time. From age 16 to 30, the child continues to live at home, growing into an adult that spends 73 percent of its time at home and lives there until age 30.

Based on the above, ultra-conservative assumptions, the 30.25-year, cumulative carcinogenic health risk (3rd trimester [-0.25 to 0 years] + infant [0-2 years] + child [2-16 years] + adult [16-30 years]) to an individual born during the opening year of the project and located in the project vicinity for the entire 30-year duration, is a maximum of 0.92 in a million at receptor location 4, as shown in Table 8. Therefore, as the maximum incremental cancer risk (MICR) does not exceed 10 in a million at any sensitive receptor location, the on-going operations of the proposed project would result in a less than significant impact due to the cancer risk from diesel emissions created by the proposed project.

Non-Cancer Risks

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

HIDPM = CDPM/RELDPM

Where,

HIDPM	=	Hazard Index; an expression of the potential for non-cancer health effects.
CDPM	=	Annual average diesel particulate matter concentration in $\mu g/m^3$.
RELDPM	=	Reference Exposure Level (REL) for diesel particulate matter; the diesel particulate matter concentration at which no adverse health effects are anticipated.

The non-carcinogenic hazards to adult, child and infant receptors are also detailed in Tables 4 through 7 column (j). The RELDPM is 5 µg/m3. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration from opening year (2025) emissions, the resulting Hazard Index is:

HIDPM = 0.00124/5 = 0.0002

The criterion for significance is a Hazard Index increase of 1.0 or greater. Therefore, the on-going operations of the proposed project would result in a less than significant impact due to the non-cancer risk from diesel emissions created by the proposed project.

Table 1
DPM Emissions Factors for the Proposed Project

Vehicle Class	(Opening Year-2025)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77751	0.05029	0.02055
Medium Heavy Duty Truck	0.06030	0.03207	0.00769
Heavy Heavy Duty Truck	0.01463	0.01179	0.00797

Notes:
Source: EMFAC2021.

Table 2
Summary of Emission Configurations

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Truck Traffic	Line Sources	Stack release height: 3.5 m
		Vehicle speed: 35 mph
		Length of the line source from the project driveways along Cajon Boulevard (Historic Route 66).
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
On-Site Diesel Truck Traffic	Line Sources	Stack release height: 3.5 m
		Vehicle speed: 10 mph
		Length of the line source from the project driveway around the entire parking area and back out of exit gate.
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021
On-Site Diesel Truck Idling	Point Sources located at loading docks and entrance/exit gates on-site.	Stack release height: 3.5 m
		Stack release characteristics
		> Stack diameter: 0.1 meter (0.3 feet)
		> Stack velocity: 51.9 mps (170 feet/sec)
		> Stack temperature: 366 °k (200° F)
		Idle time: 15 minutes per truck per day
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021

Table 3
General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP - NED GEOTIFF 30 m
Emission source configuration	See Table 2
Regulatory dispersion options	Default
Land use	Urban
Building downwash	Included in calculations
Receptor height	0 meters above ground (per OEHHA methodology)
Meteorological data	SCAQMD Fontana Meteorological Data

Table 4
Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00114	1.1E-06	1.00E+00	DPM	1.1E+00	0.016	5.0E+00	1.4E-03	0.0002
3	0.00105	1.1E-06	1.00E+00	DPM	1.1E+00	0.014	5.0E+00	1.4E-03	0.0002
4	0.00124	1.2E-06	1.00E+00	DPM	1.1E+00	0.017	5.0E+00	1.4E-03	0.0002
5	0.00069	6.9E-07	1.00E+00	DPM	1.1E+00	0.009	5.0E+00	1.4E-03	0.0001
6	0.00122	1.2E-06	1.00E+00	DPM	1.1E+00	0.017	5.0E+00	1.4E-03	0.0002
7	0.00081	8.1E-07	1.00E+00	DPM	1.1E+00	0.011	5.0E+00	1.4E-03	0.0002
8	0.00031	3.1E-07	1.00E+00	DPM	1.1E+00	0.004	5.0E+00	1.4E-03	0.0001
9	0.00019	1.9E-07	1.00E+00	DPM	1.1E+00	0.003	5.0E+00	1.4E-03	0.0000

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake:

Exposure Frequency (days/year)	350
Exposure Duration (years)	0.25
Daily Breathing Rate	361
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	91.25

E= 10^{X}, i.e. E-02 = 10^{-2}

Table 5
Carcinogenic Risks and Non-Carcinogenic Infant Exposure Scenario (2-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00114	1.1E-06	1.00E+00	DPM	1.1E+00	0.374	5.0E+00	1.4E-03	0.0002
3	0.00105	1.1E-06	1.00E+00	DPM	1.1E+00	0.345	5.0E+00	1.4E-03	0.0002
4	0.00124	1.2E-06	1.00E+00	DPM	1.1E+00	0.407	5.0E+00	1.4E-03	0.0002
5	0.00069	6.9E-07	1.00E+00	DPM	1.1E+00	0.227	5.0E+00	1.4E-03	0.0001
6	0.00122	1.2E-06	1.00E+00	DPM	1.1E+00	0.401	5.0E+00	1.4E-03	0.0002
7	0.00081	8.1E-07	1.00E+00	DPM	1.1E+00	0.266	5.0E+00	1.4E-03	0.0002
8	0.00031	3.1E-07	1.00E+00	DPM	1.1E+00	0.102	5.0E+00	1.4E-03	0.0001
9	0.00019	1.9E-04	1.00E+00	DPM	1.1E+00	0.062	5.0E+00	1.4E-03	0.0000

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	2
Daily Breathing Rate	1090
Age Sensitivity Factor	10
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	730

E= 10^{X}, i.e. E-02 = 10^{-2}

Table 6
Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario (2-16 Years)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00114	1.1E-06	1.00E+00	DPM	1.1E+00	0.413	5.0E+00	1.4E-03	0.0002
3	0.00105	1.1E-06	1.00E+00	DPM	1.1E+00	0.380	5.0E+00	1.4E-03	0.0002
4	0.00124	1.2E-06	1.00E+00	DPM	1.1E+00	0.449	5.0E+00	1.4E-03	0.0002
5	0.00069	6.9E-07	1.00E+00	DPM	1.1E+00	0.250	5.0E+00	1.4E-03	0.0001
6	0.00122	1.2E-06	1.00E+00	DPM	1.1E+00	0.442	5.0E+00	1.4E-03	0.0002
7	0.00081	8.1E-07	1.00E+00	DPM	1.1E+00	0.293	5.0E+00	1.4E-03	0.0002
8	0.00031	3.1E-07	1.00E+00	DPM	1.1E+00	0.112	5.0E+00	1.4E-03	0.0001
9	0.00019	1.9E-07	1.00E+00	DPM	1.1E+00	0.069	5.0E+00	1.4E-03	0.0000

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	572
Age Sensitivity Factor	3
Fraction of Time At Home (FAH)	1
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	5110

E= 10^{X}, i.e. E-02 = 10^{-2}

Table 7
Carcinogenic Risks and Non-Carcinogenic Hazards Adult Exposure Scenario (16-30 Years)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00114	1.1E-06	1.00E+00	DPM	1.1E+00	0.046	5.0E+00	1.4E-03	0.0002
3	0.00105	1.1E-06	1.00E+00	DPM	1.1E+00	0.042	5.0E+00	1.4E-03	0.0002
4	0.00124	1.2E-06	1.00E+00	DPM	1.1E+00	0.050	5.0E+00	1.4E-03	0.0002
5	0.00069	6.9E-07	1.00E+00	DPM	1.1E+00	0.028	5.0E+00	1.4E-03	0.0001
6	0.00122	1.2E-06	1.00E+00	DPM	1.1E+00	0.049	5.0E+00	1.4E-03	0.0002
7	0.00081	8.1E-07	1.00E+00	DPM	1.1E+00	0.033	5.0E+00	1.4E-03	0.0002
8	0.00031	3.1E-07	1.00E+00	DPM	1.1E+00	0.012	5.0E+00	1.4E-03	0.0001
9	0.00019	1.9E-07	1.00E+00	DPM	1.1E+00	0.008	5.0E+00	1.4E-03	0.0000

Notes:

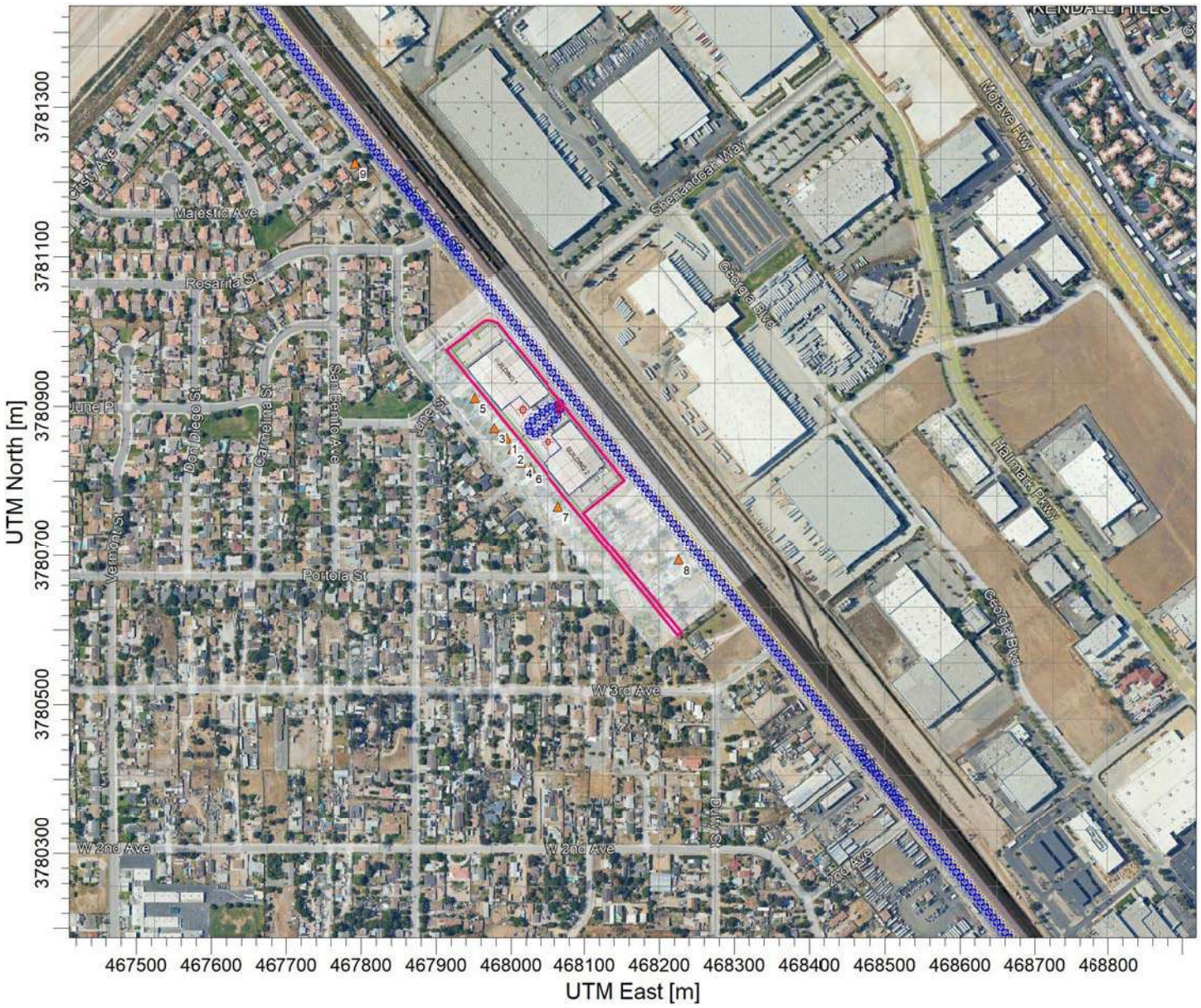
OEHHA 95th percentile Exposure factors used to calculate TAC intake

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	261
Age Sensitivity Factor	1
Fraction of Time At Home (FAH)	0.73
Averaging Time $_{(cancer)}$ (days)	25550
Averaging Time $_{(non\text{-}cancer)}$ (days)	5110

E= 10^{X}, i.e. E-02 = 10^{-2}

Table 8
Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	0.85
2	0.86
3	0.78
4	0.92
6	0.91
7	0.60
8	0.23
9	0.14



N

Legend

Project Site Boundary
On/Off Site Truck Travel
Cartesian Receptors
Truck Idling Locations
Discrete Receptors

Figure 3
AERMOD Model Source and Receptor Placement

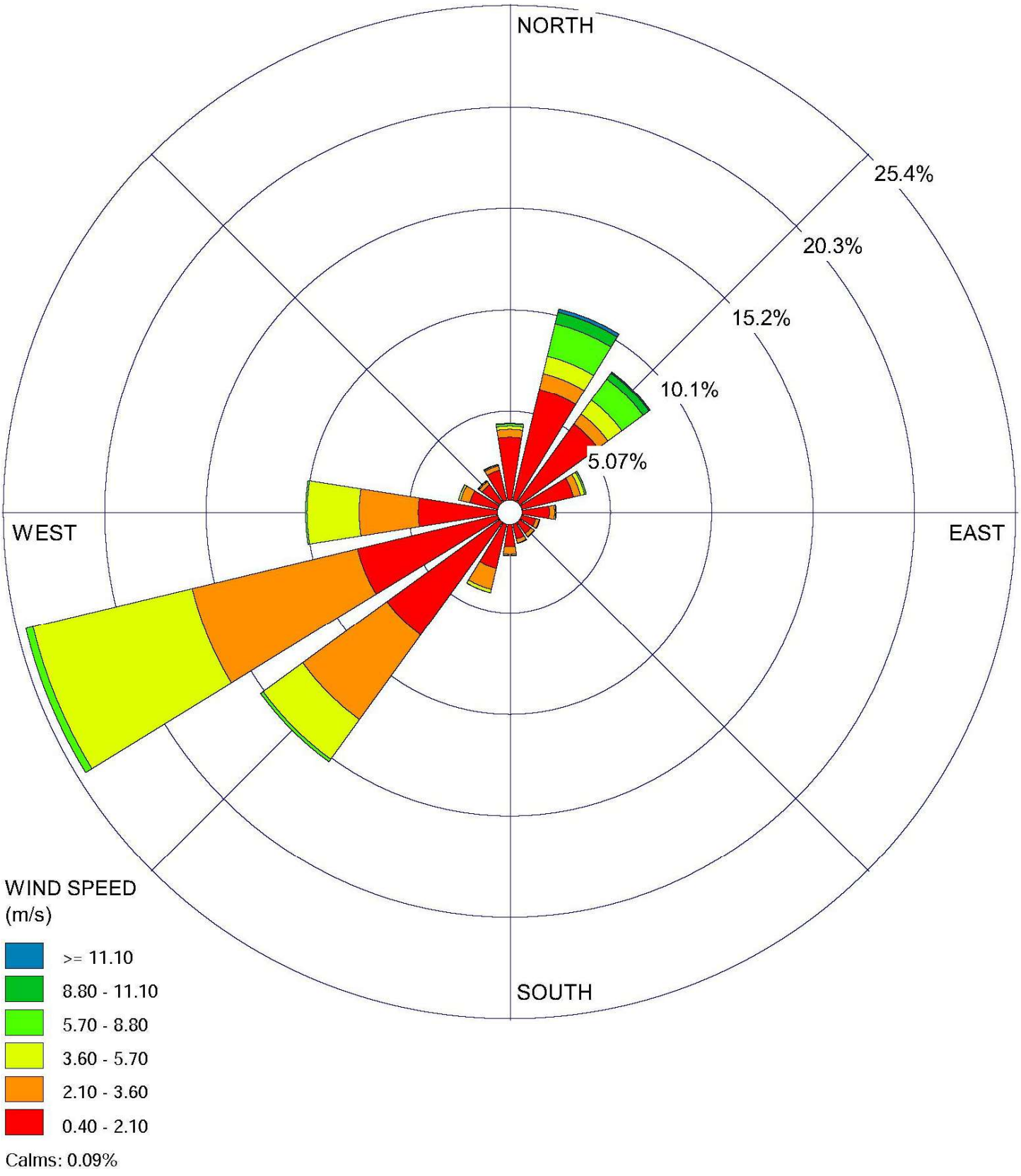
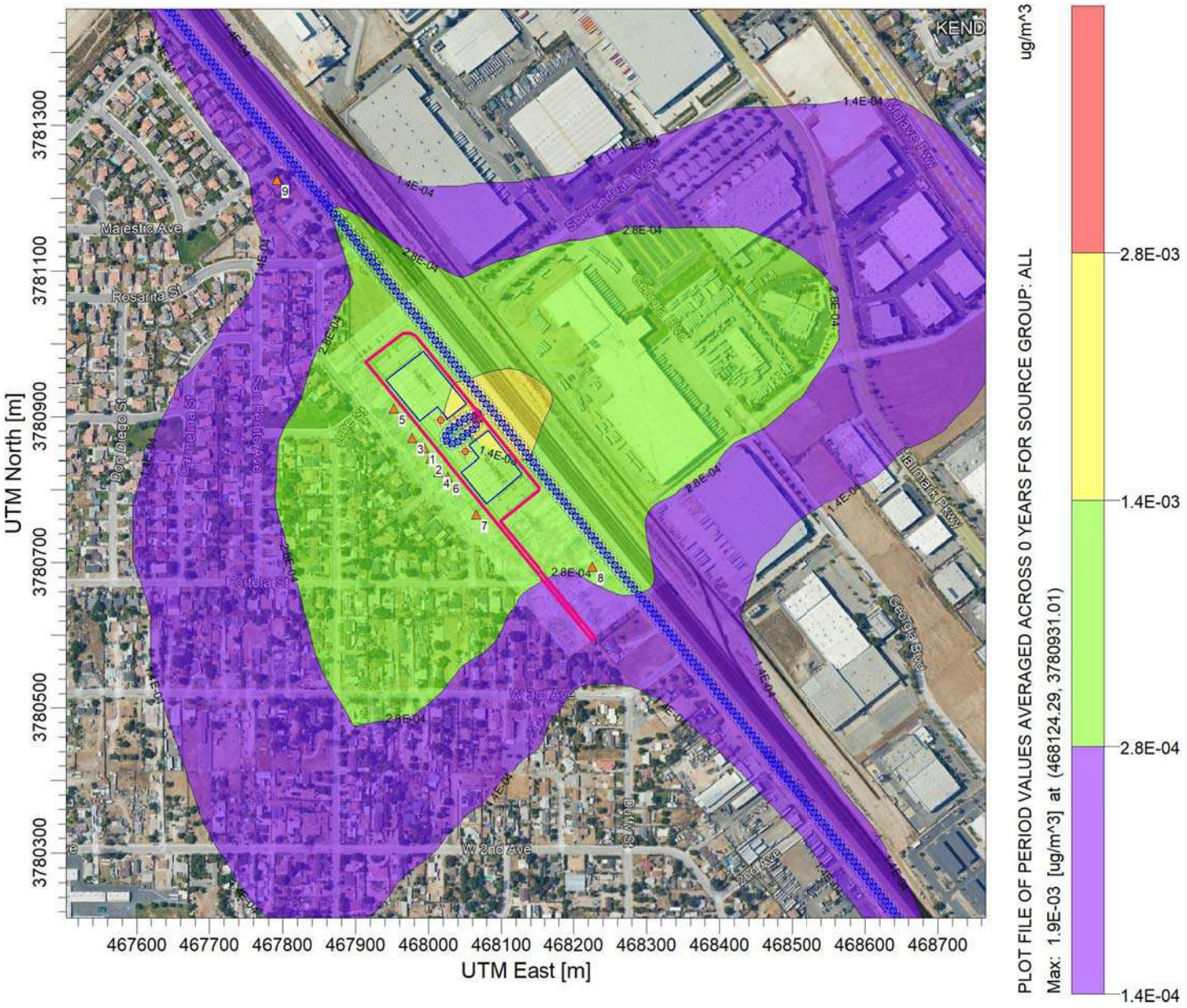


Figure 4
Windrose: Fontana



N

Legend

Cancer Risk to Children (2-16) Years

- 1 in a million
- 0.5 in a million
- 0.1 in a million
- 0.05 in a million

Figure 5
Modeled Study Area Highest Cancer Risk from Annual DPM Emissions

4. MITIGATION MEASURES

Health risk impacts are less than significant. No operational mitigation is required.

5. REFERENCES

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

2008 Airborne Toxic Control Measure for in-use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, Section 2477 of Division 3, Chapter 9, Title 13, California Code of Regulations

2008 ARB Recommended Interim Risk Management Policy for Inhalation-Based Residential Cancer Risk – Frequently Asked Questions

2013 Almanac of Emissions and Air Quality.
Source: https://www.arb.ca.gov/aqd/almanac/almanac13/almanac13.htm

Ganddini Group, Inc.

2023 Muscoy Warehouse (SWC Cajon/June) Transportation Screening Assessment. September 22.

Office of Environmental Health Hazard Assessment

2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

South Coast Air Quality Management District

2003 Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis

2021 Final MATES-V Multiple Air Toxics Exposure Study in the South Coast Air Basin. August.

U.S. Geological Survey

2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

APPENDICES

Appendix A Glossary
Appendix B HRA Calculations and AERMOD Model Printouts

APPENDIX A

GLOSSARY

AQMP	Air Quality Management Plan
BACT	Best Available Control Technologies
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH_4	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
DPM	East Kern Air Pollution Control District
EKAPCD	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HIDPM	Hazard Index Diesel Particulate Matter
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LCFS	Low Carbon Fuel Standard
LST	Localized Significant Thresholds
$MTCO_2e$	Metric tons of carbon dioxide equivalent
$MMTCO_2e$	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NOx	Nitrogen Oxides
NO_2	Nitrogen dioxide
N_2O	Nitrous oxide
OEHHA	Office of Environmental Health Hazard Assessment
O_3	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM10	Particles that are less than 10 micrometers in diameter
PM2.5	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPM	Parts per million
PPB	Parts per billion
SF_6	Sulfur hexafluoride
SIP	State Implementation Plan
SCAQMD	South Coast Air Quality Management District
SOx	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B

HRA CALCULATIONS AND AERMOD MODEL PRINTOUT

Emission Assumptions **DPM** Emissions
Muscoy Warehouse

Facility Operations

Buildout year: 2025

Emission Factors

1) Onsite Vehicle Emissions

a) Truck

(1) EMFAC2021 - PM2.5 used as surrogate for DPM

(a) Annual Meteorology

Temperature: 50 degF

Relative Humidity: 50%

(b) Calculations for San Bernardino County

(c) Truck Mix

4+ axle heavy-heavy duty diesel trucks (HHDT)

4 axle diesel trucks (MHDT)

2 axle diesel trucks (LHDT2)

(d) Onsite Truck Travel Speed: 10 mph

(e) Off-site Truck Travel Speed: 35 mph

(f) Idle speed: 0 mph

(g) Truck Idle time: 15 minutes per truck per day

2) Other Parameters

(a) Width of Truck Source: 8.5 feet

(b) Truck Operational Schedule 24 hours/day

(c) Height of Truck: 13.5 feet

(d) Release Height: 3.5 meters

Muscoy Warehouse | **Emission:** | **DPM** | **Build-out:** | **2025**

Processes Modeled

Onsite delivery traffic
Truck idling
Offsite delivery traffic

Facilities in Operation

Location	Truck type	Daily trucks
Project Site	HHDT	12
Project Site	MHDT	5
Project Site	LHDT2	8
Total		**25**

Delivery Schedule:
24 **hrs/day, 52 weeks/year**

Emission Factors 1 Year (2025)

Vehicle Class	Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)
HHDT	0.01179	0.00797	0.01463
MHDT	0.03207	0.00769	0.06030
LHDT2	0.05029	0.02055	0.77751

Onsite Roadway Links Modeled

Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)	
Entrance driveway in and out	HHDT	0.01179	12	129	0.08	1.13E-02	1.31E-07	8.99E-02	2.50E-05	4.56E-06		
Entrance driveway in and out	MHDT	0.03207	5	129	0.08	1.29E-02	1.49E-07	1.02E-01	2.83E-05	5.17E-06	**6.53E-07**	100% of trucks
Entrance driveway in and out	LHDT2	0.05029	8	129	0.08	3.22E-02	3.73E-07	2.56E-01	7.10E-05	1.30E-05		

Truck Idling

Idle time 15 minutes

Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)		
At loading docks and entrance/exit driveway	HHDT	0.01463	15	12	0.04	5.08E-07	4.03E-06	9.67E-05	1.76E-05			
At loading docks and entrance/exit driveway	MHDT	0.06030	15	5	0.08	8.72E-07	6.92E-06	1.66E-04	3.03E-05		1.94E-05	
At loading docks and entrance/exit driveway	LHDT2	0.77751	15	8	1.56	1.80E-05	1.43E-04	3.43E-03	6.25E-04		**4.84E-06**	per idling location
												(4 total)

Offsite Roadway Links Modeled

Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)		
Offsite truck traffic along Cajon Blvd	HHDT	0.00797	12	1907.9	1.19	1.13E-01	1.31E-06	8.98E-01	2.50E-04	4.55E-05	100% of trucks	
Offsite truck traffic along Cajon Blvd	MHDT	0.00769	5	1907.9	1.19	4.56E-02	5.27E-07	3.61E-01	1.00E-04	1.83E-05	**4.09E-06**	
Offsite truck traffic along Cajon Blvd	LHDT2	0.02055	8	1907.9	1.19	1.95E-01	2.26E-06	1.55E+00	4.29E-04	7.83E-05		

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 11/16/2023
** File: C:\Lakes\AERMOD View\19667 Muscoy Warehouse OY\19667 Muscoy Warehouse OY.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\19667 Muscoy Warehouse OY\19667 Muscoy Warehous
   TITLETWO DPM Conc OY
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "19667 Muscoy Warehouse OY.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      468016.136  3780894.982      456.030
** DESCRSRC Idling location
   LOCATION STCK2        POINT      468050.372  3780852.252      454.930
** DESCRSRC Idling location
   LOCATION STCK3        POINT      468066.358  3780903.593      456.140
** DESCRSRC Idling location
   LOCATION STCK4        POINT      468066.896  3780894.574      455.890
** DESCRSRC Idling location
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On site travel
** PREFIX
** Length of Side = 8.59
```

```
** Configuration = Adjacent
** Emission Rate = 6.53E-07
** Elevated
** Building Height = 22.86
** SZINIT = 10.63
** Nodes = 19
** 468068.108, 3780904.939, 456.30, 3.50, 4.00
** 468063.666, 3780901.170, 456.08, 3.50, 4.00
** 468057.878, 3780899.689, 455.74, 3.50, 4.00
** 468050.744, 3780898.074, 455.73, 3.50, 4.00
** 468035.937, 3780886.902, 455.78, 3.50, 4.00
** 468025.573, 3780878.018, 455.69, 3.50, 4.00
** 468024.092, 3780875.326, 455.73, 3.50, 4.00
** 468022.746, 3780872.634, 455.23, 3.50, 4.00
** 468023.419, 3780868.326, 455.22, 3.50, 4.00
** 468026.650, 3780864.019, 455.15, 3.50, 4.00
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   LOCATION L0000005     VOLUME   468035.181 3780886.254 455.71
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   LOCATION L0000009     VOLUME   468032.231 3780862.902 455.25
   LOCATION L0000010     VOLUME   468040.199 3780866.027 455.27
   LOCATION L0000011     VOLUME   468046.343 3780872.002 455.38
   LOCATION L0000012     VOLUME   468053.110 3780877.274 455.48
   LOCATION L0000013     VOLUME   468059.884 3780882.552 455.59
   LOCATION L0000014     VOLUME   468064.980 3780889.140 455.74
   LOCATION L0000015     VOLUME   468068.646 3780896.629 455.95
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Off site travel
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.09E-06
** Elevated
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** SZINIT = 1.63
** Nodes = 2
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** 468716.982, 3780123.650, 436.82, 3.50, 4.00
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   LOCATION L0000032     VOLUME   467530.325 3781601.152 473.07
   LOCATION L0000033     VOLUME   467535.705 3781594.454 473.04
   LOCATION L0000034     VOLUME   467541.084 3781587.756 472.98
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   LOCATION L0000036     VOLUME   467551.843 3781574.360 472.80
   LOCATION L0000037     VOLUME   467557.223 3781567.662 472.65
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   LOCATION L0000039     VOLUME   467567.982 3781554.266 471.87
   LOCATION L0000040     VOLUME   467573.361 3781547.568 471.23
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   LOCATION L0000042     VOLUME   467584.120 3781534.172 469.69
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   LOCATION L0000044     VOLUME   467594.879 3781520.776 469.50
   LOCATION L0000045     VOLUME   467600.259 3781514.078 470.00
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   LOCATION L0000047     VOLUME   467611.018 3781500.682 470.86
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   LOCATION L0000072     VOLUME   467745.505 3781333.233 467.00
   LOCATION L0000073     VOLUME   467750.884 3781326.535 466.77
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   LOCATION L0000075     VOLUME   467761.643 3781313.139 466.44
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LOCATION L0000078     VOLUME   467777.782 3781293.045 465.86
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LOCATION L0000080     VOLUME   467788.541 3781279.649 465.63
LOCATION L0000081     VOLUME   467793.920 3781272.951 465.49
LOCATION L0000082     VOLUME   467799.300 3781266.253 465.29
LOCATION L0000083     VOLUME   467804.679 3781259.555 465.07
LOCATION L0000084     VOLUME   467810.059 3781252.857 465.01
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LOCATION L0000087     VOLUME   467826.197 3781232.763 464.60
LOCATION L0000088     VOLUME   467831.577 3781226.065 464.35
LOCATION L0000089     VOLUME   467836.956 3781219.367 464.19
LOCATION L0000090     VOLUME   467842.336 3781212.669 464.03
LOCATION L0000091     VOLUME   467847.715 3781205.971 463.84
LOCATION L0000092     VOLUME   467853.095 3781199.273 463.61
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LOCATION L0000098     VOLUME   467885.372 3781159.085 462.59
LOCATION L0000099     VOLUME   467890.751 3781152.387 462.46
LOCATION L0000100     VOLUME   467896.131 3781145.689 462.31
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LOCATION L0000102     VOLUME   467906.890 3781132.293 461.97
LOCATION L0000103     VOLUME   467912.269 3781125.595 461.83
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LOCATION L0000115     VOLUME   467976.823 3781045.220 460.29
LOCATION L0000116     VOLUME   467982.202 3781038.522 460.07
LOCATION L0000117     VOLUME   467987.582 3781031.824 459.84
LOCATION L0000118     VOLUME   467992.961 3781025.126 459.61
LOCATION L0000119     VOLUME   467998.341 3781018.428 459.39
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LOCATION L0000123     VOLUME   468019.859 3780991.636 458.56
LOCATION L0000124     VOLUME   468025.238 3780984.938 458.38
LOCATION L0000125     VOLUME   468030.618 3780978.240 458.22
LOCATION L0000126     VOLUME   468035.997 3780971.542 458.03
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LOCATION L0000128     VOLUME   468046.756 3780958.146 457.70
LOCATION L0000129     VOLUME   468052.136 3780951.448 457.54
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LOCATION L0000136     VOLUME   468089.792 3780904.562 456.39
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LOCATION L0000138     VOLUME   468100.551 3780891.166 456.08
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LOCATION L0000142     VOLUME   468122.069 3780864.374 455.46
LOCATION L0000143     VOLUME   468127.449 3780857.676 455.34
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LOCATION L0000146     VOLUME   468143.587 3780837.582 454.91
LOCATION L0000147     VOLUME   468148.967 3780830.884 454.77
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LOCATION L0000150     VOLUME   468165.105 3780810.790 454.40
LOCATION L0000151     VOLUME   468170.485 3780804.092 454.23
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LOCATION L0000153     VOLUME   468181.244 3780790.696 453.97
LOCATION L0000154     VOLUME   468186.623 3780783.998 453.81
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LOCATION L0000157     VOLUME   468202.761 3780763.904 453.34
LOCATION L0000158     VOLUME   468208.141 3780757.206 453.20
LOCATION L0000159     VOLUME   468213.520 3780750.508 453.05
LOCATION L0000160     VOLUME   468218.900 3780743.810 452.87
LOCATION L0000161     VOLUME   468224.279 3780737.112 452.72
LOCATION L0000162     VOLUME   468229.659 3780730.414 452.59
LOCATION L0000163     VOLUME   468235.038 3780723.716 452.45
LOCATION L0000164     VOLUME   468240.418 3780717.018 452.29
LOCATION L0000165     VOLUME   468245.797 3780710.321 452.12
LOCATION L0000166     VOLUME   468251.177 3780703.623 451.98
LOCATION L0000167     VOLUME   468256.556 3780696.925 451.83
LOCATION L0000168     VOLUME   468261.936 3780690.227 451.68
LOCATION L0000169     VOLUME   468267.315 3780683.529 451.52
LOCATION L0000170     VOLUME   468272.695 3780676.831 451.35
LOCATION L0000171     VOLUME   468278.074 3780670.133 451.21
LOCATION L0000172     VOLUME   468283.454 3780663.435 451.05
LOCATION L0000173     VOLUME   468288.833 3780656.737 450.89
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LOCATION L0000175     VOLUME   468299.592 3780643.341 450.57
LOCATION L0000176     VOLUME   468304.972 3780636.643 450.43
LOCATION L0000177     VOLUME   468310.351 3780629.945 450.28
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LOCATION L0000178     VOLUME   468315.731 3780623.247 450.13
LOCATION L0000179     VOLUME   468321.110 3780616.549 449.95
LOCATION L0000180     VOLUME   468326.490 3780609.851 449.80
LOCATION L0000181     VOLUME   468331.869 3780603.153 449.63
LOCATION L0000182     VOLUME   468337.249 3780596.455 449.46
LOCATION L0000183     VOLUME   468342.628 3780589.757 449.27
LOCATION L0000184     VOLUME   468348.008 3780583.059 449.09
LOCATION L0000185     VOLUME   468353.387 3780576.361 448.91
LOCATION L0000186     VOLUME   468358.767 3780569.663 448.71
LOCATION L0000187     VOLUME   468364.146 3780562.965 448.51
LOCATION L0000188     VOLUME   468369.526 3780556.267 448.30
LOCATION L0000189     VOLUME   468374.905 3780549.569 448.12
LOCATION L0000190     VOLUME   468380.285 3780542.871 447.94
LOCATION L0000191     VOLUME   468385.664 3780536.173 447.74
LOCATION L0000192     VOLUME   468391.044 3780529.475 447.53
LOCATION L0000193     VOLUME   468396.423 3780522.777 447.33
LOCATION L0000194     VOLUME   468401.803 3780516.079 447.17
LOCATION L0000195     VOLUME   468407.182 3780509.381 447.01
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LOCATION L0000197     VOLUME   468417.941 3780495.985 446.59
LOCATION L0000198     VOLUME   468423.321 3780489.287 446.40
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LOCATION L0000203     VOLUME   468450.218 3780455.797 445.42
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LOCATION L0000206     VOLUME   468466.356 3780435.703 444.84
LOCATION L0000207     VOLUME   468471.736 3780429.005 444.61
LOCATION L0000208     VOLUME   468477.115 3780422.307 444.47
LOCATION L0000209     VOLUME   468482.495 3780415.609 444.31
LOCATION L0000210     VOLUME   468487.874 3780408.911 444.13
LOCATION L0000211     VOLUME   468493.254 3780402.213 443.92
LOCATION L0000212     VOLUME   468498.633 3780395.515 443.72
LOCATION L0000213     VOLUME   468504.013 3780388.817 443.59
LOCATION L0000214     VOLUME   468509.392 3780382.120 443.44
LOCATION L0000215     VOLUME   468514.772 3780375.422 443.27
LOCATION L0000216     VOLUME   468520.151 3780368.724 443.07
LOCATION L0000217     VOLUME   468525.531 3780362.026 442.92
LOCATION L0000218     VOLUME   468530.910 3780355.328 442.79
LOCATION L0000219     VOLUME   468536.290 3780348.630 442.64
LOCATION L0000220     VOLUME   468541.669 3780341.932 442.47
LOCATION L0000221     VOLUME   468547.049 3780335.234 442.28
LOCATION L0000222     VOLUME   468552.428 3780328.536 442.12
LOCATION L0000223     VOLUME   468557.808 3780321.838 441.96
LOCATION L0000224     VOLUME   468563.187 3780315.140 441.78
LOCATION L0000225     VOLUME   468568.567 3780308.442 441.60
LOCATION L0000226     VOLUME   468573.946 3780301.744 441.40
LOCATION L0000227     VOLUME   468579.326 3780295.046 441.21
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   LOCATION L0000231     VOLUME   468600.844 3780268.254 440.41
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   LOCATION L0000237     VOLUME   468633.121 3780228.066 439.33
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   LOCATION L0000240     VOLUME   468649.259 3780207.972 438.90
   LOCATION L0000241     VOLUME   468654.639 3780201.274 438.71
   LOCATION L0000242     VOLUME   468660.018 3780194.576 438.55
   LOCATION L0000243     VOLUME   468665.398 3780187.878 438.41
   LOCATION L0000244     VOLUME   468670.777 3780181.180 438.29
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   LOCATION L0000250     VOLUME   468703.054 3780140.992 437.38
   LOCATION L0000251     VOLUME   468708.434 3780134.294 437.20
   LOCATION L0000252     VOLUME   468713.813 3780127.596 437.04
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
   SRCPARAM STCK1         4.84E-06     3.500   366.000    51.816   0.09144
   SRCPARAM STCK2         4.84E-06     3.500   366.000    51.816   0.09144
   SRCPARAM STCK3         4.84E-06     3.500   366.000    51.816   0.09144
   SRCPARAM STCK4         4.84E-06     3.500   366.000    51.816   0.09144
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000001     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000002     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000003     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000004     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000005     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000006     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000007     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000008     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000009     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000010     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000011     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000012     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000013     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000014     0.00000004353      3.50      4.00     10.63
   SRCPARAM L0000015     0.00000004353      3.50      4.00     10.63
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** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000031     0.00000001842      3.50      4.00      1.63
   SRCPARAM L0000032     0.00000001842      3.50      4.00      1.63
   SRCPARAM L0000033     0.00000001842      3.50      4.00      1.63
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SRCPARAM L0000034     0.00000001842      3.50      4.00      1.63
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SRCPARAM L0000036     0.00000001842      3.50      4.00      1.63
SRCPARAM L0000037     0.00000001842      3.50      4.00      1.63
SRCPARAM L0000038     0.00000001842      3.50      4.00      1.63
SRCPARAM L0000039     0.00000001842      3.50      4.00      1.63
SRCPARAM L0000040     0.00000001842      3.50      4.00      1.63
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SRCPARAM L0000059     0.00000001842      3.50      4.00      1.63
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SRCPARAM L0000068     0.00000001842      3.50      4.00      1.63
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SRCPARAM L0000084     0.00000001842      3.50      4.00      1.63
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SRCPARAM L0000186     0.00000001842      3.50      4.00      1.63
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** ------------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK1          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK1          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK1          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK1          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK1          22.86    22.86    22.86    22.86    22.86    22.86

   BUILDHGT STCK2          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK2          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK2          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK2          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK2          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK2          22.86    22.86    22.86    22.86    22.86    22.86

   BUILDHGT STCK3          22.86    22.86     0.00     0.00     0.00     0.00
   BUILDHGT STCK3          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK3          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK3          22.86    22.86     0.00     0.00     0.00     0.00
   BUILDHGT STCK3          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK3          22.86    22.86    22.86    22.86    22.86    22.86

   BUILDHGT STCK4          22.86    22.86    22.86     0.00     0.00     0.00
   BUILDHGT STCK4           0.00    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK4          22.86    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK4          22.86    22.86    22.86     0.00     0.00     0.00
   BUILDHGT STCK4           0.00    22.86    22.86    22.86    22.86    22.86
   BUILDHGT STCK4          22.86    22.86    22.86    22.86    22.86    22.86

   BUILDWID STCK1         113.88   114.38   111.39   105.02    95.47    96.82
   BUILDWID STCK1          98.39    96.96    95.41    94.80    91.31    85.05
   BUILDWID STCK1          76.21    65.04    79.01    92.23   102.64   109.93
   BUILDWID STCK1         113.88   114.38   111.39   105.02    95.47    96.82
   BUILDWID STCK1          98.39    96.96    95.41    94.80    91.31    85.05
```

BUILDWID STCK1	76.21	65.04	79.01	92.23	102.64	109.93
BUILDWID STCK2	113.88	81.66	82.40	80.63	76.42	85.67
BUILDWID STCK2	93.42	98.34	100.27	99.15	95.02	85.05
BUILDWID STCK2	76.21	65.04	79.01	92.23	102.64	109.93
BUILDWID STCK2	113.88	81.66	82.40	80.63	76.42	85.67
BUILDWID STCK2	93.42	98.34	100.27	99.15	95.02	85.05
BUILDWID STCK2	76.21	66.24	71.51	78.09	82.29	109.93
BUILDWID STCK3	83.15	81.66	0.00	0.00	0.00	0.00
BUILDWID STCK3	98.39	96.96	95.41	94.80	91.31	85.05
BUILDWID STCK3	76.21	65.04	79.01	92.23	82.29	84.00
BUILDWID STCK3	83.15	81.66	0.00	0.00	0.00	0.00
BUILDWID STCK3	98.39	96.96	95.41	94.80	91.31	85.05
BUILDWID STCK3	76.21	65.04	79.01	92.23	82.29	84.00
BUILDWID STCK4	83.15	81.66	82.40	0.00	0.00	0.00
BUILDWID STCK4	0.00	96.96	95.41	94.80	91.31	85.05
BUILDWID STCK4	76.21	65.04	79.01	92.23	102.64	84.00
BUILDWID STCK4	83.15	81.66	82.40	0.00	0.00	0.00
BUILDWID STCK4	0.00	96.96	95.41	94.80	91.31	85.05
BUILDWID STCK4	76.21	65.04	79.01	92.23	102.64	84.00
BUILDLEN STCK1	94.80	91.31	85.05	76.21	65.04	79.01
BUILDLEN STCK1	92.23	102.64	109.93	113.88	114.38	111.39
BUILDLEN STCK1	105.02	95.47	96.82	98.39	96.96	95.41
BUILDLEN STCK1	94.80	91.31	85.05	76.21	65.04	79.01
BUILDLEN STCK1	92.23	102.64	109.93	113.88	114.38	111.39
BUILDLEN STCK1	105.02	95.47	96.82	98.39	96.96	95.41
BUILDLEN STCK2	94.80	95.02	88.01	78.32	66.24	71.51
BUILDLEN STCK2	78.09	82.29	84.00	83.15	81.66	111.39
BUILDLEN STCK2	105.02	95.47	96.82	98.39	96.96	95.41
BUILDLEN STCK2	94.80	95.02	88.01	78.32	66.24	71.51
BUILDLEN STCK2	78.09	82.29	84.00	83.15	81.66	111.39
BUILDLEN STCK2	105.02	76.42	85.67	93.42	98.34	95.41
BUILDLEN STCK3	99.15	95.02	0.00	0.00	0.00	0.00
BUILDLEN STCK3	92.23	102.64	109.93	113.88	114.38	111.39
BUILDLEN STCK3	105.02	95.47	96.82	98.39	98.34	100.27
BUILDLEN STCK3	99.15	95.02	0.00	0.00	0.00	0.00
BUILDLEN STCK3	92.23	102.64	109.93	113.88	114.38	111.39
BUILDLEN STCK3	105.02	95.47	96.82	98.39	98.34	100.27
BUILDLEN STCK4	99.15	95.02	88.01	0.00	0.00	0.00
BUILDLEN STCK4	0.00	102.64	109.93	113.88	114.38	111.39
BUILDLEN STCK4	105.02	95.47	96.82	98.39	96.96	100.27
BUILDLEN STCK4	99.15	95.02	88.01	0.00	0.00	0.00
BUILDLEN STCK4	0.00	102.64	109.93	113.88	114.38	111.39
BUILDLEN STCK4	105.02	95.47	96.82	98.39	96.96	100.27

XBADJ	STCK1	-5.92	-10.72	-15.19	-19.21	-22.64	-36.77
XBADJ	STCK1	-51.00	-63.68	-74.42	-82.90	-88.87	-92.13
XBADJ	STCK1	-92.59	-90.24	-93.77	-96.95	-97.19	-94.47
XBADJ	STCK1	-88.88	-80.60	-69.86	-57.00	-42.41	-42.24
XBADJ	STCK1	-41.23	-38.96	-35.51	-30.98	-25.51	-19.26
XBADJ	STCK1	-12.43	-5.22	-3.05	-1.43	0.23	-0.94
XBADJ	STCK2	30.22	-57.16	-47.35	-36.11	-23.77	-19.29
XBADJ	STCK2	-15.34	-10.92	-6.17	-1.23	1.87	-143.14
XBADJ	STCK2	-146.28	-144.98	-147.89	-148.81	-145.21	-137.20
XBADJ	STCK2	-125.02	-37.86	-40.65	-42.21	-42.48	-52.22
XBADJ	STCK2	-62.75	-71.37	-77.83	-81.92	-83.52	31.75
XBADJ	STCK2	41.26	-73.29	-76.17	-76.88	-75.24	41.79
XBADJ	STCK3	-118.57	-110.87	0.00	0.00	0.00	0.00
XBADJ	STCK3	-101.13	-114.63	-124.64	-130.86	-133.11	-131.32
XBADJ	STCK3	-125.53	-115.93	-111.42	-106.04	24.68	22.39
XBADJ	STCK3	19.42	15.85	0.00	0.00	0.00	0.00
XBADJ	STCK3	8.91	11.99	14.71	16.98	18.74	19.92
XBADJ	STCK3	20.51	20.46	14.60	7.65	-123.02	-122.66
XBADJ	STCK4	-109.78	-102.58	-92.27	0.00	0.00	0.00
XBADJ	STCK4	0.00	-113.59	-125.18	-132.96	-136.71	-136.29
XBADJ	STCK4	-131.74	-123.19	-119.50	-114.70	-106.40	13.37
XBADJ	STCK4	10.63	7.56	4.26	0.00	0.00	0.00
XBADJ	STCK4	0.00	10.96	15.25	19.08	22.33	24.90
XBADJ	STCK4	26.72	27.72	22.68	16.31	9.44	-113.64
YBADJ	STCK1	25.96	31.68	36.43	40.08	42.51	45.36
YBADJ	STCK1	47.76	48.71	46.76	41.48	34.94	27.33
YBADJ	STCK1	18.90	9.89	2.74	-4.88	-12.36	-19.46
YBADJ	STCK1	-25.96	-31.68	-36.43	-40.08	-42.51	-45.36
YBADJ	STCK1	-47.76	-48.71	-46.76	-41.48	-34.94	-27.33
YBADJ	STCK1	-18.90	-9.89	-2.74	4.88	12.36	19.46
YBADJ	STCK2	67.09	-42.69	-41.39	-38.83	-35.08	-33.34
YBADJ	STCK2	-30.16	-26.07	-21.18	-15.66	-9.65	47.22
YBADJ	STCK2	29.63	11.13	-5.54	-22.44	-38.65	-53.69
YBADJ	STCK2	-67.09	42.69	41.39	38.83	35.08	33.34
YBADJ	STCK2	30.16	26.07	21.18	15.66	9.65	-47.22
YBADJ	STCK2	-29.63	-9.36	-16.46	-23.70	-30.23	53.69
YBADJ	STCK3	-33.51	-45.23	0.00	0.00	0.00	0.00
YBADJ	STCK3	56.84	48.95	38.15	24.28	9.67	-5.23
YBADJ	STCK3	-19.98	-34.12	-45.06	-55.02	5.56	19.84
YBADJ	STCK3	33.51	45.23	0.00	0.00	0.00	0.00
YBADJ	STCK3	-56.84	-48.95	-38.15	-24.28	-9.67	5.23
YBADJ	STCK3	19.98	34.12	45.06	55.02	-5.56	-19.84
YBADJ	STCK4	-31.41	-41.64	-48.23	0.00	0.00	0.00
YBADJ	STCK4	0.00	57.92	47.17	33.07	17.96	2.31

```
   YBADJ    STCK4          -13.42   -28.73   -41.02   -52.44   -62.28    19.30
   YBADJ    STCK4           31.41    41.64    48.23     0.00     0.00     0.00
   YBADJ    STCK4            0.00   -57.92   -47.17   -33.07   -17.96    -2.31
   YBADJ    STCK4           13.42    28.73    41.02    52.44    62.28   -19.30

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "19667 Muscoy Warehouse OY.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\FONT_V9_ADJU\FONT_v9.SFC"
   PROFFILE "E:\New MET data\FONT_V9_ADJU\FONT_v9.PFL"
   SURFDATA 3102 2011
   UAIRDATA 3190 2011
   SITEDATA 99999 2011
   PROFBASE 367.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "19667 Muscoy Warehouse OY.AD\PE00GALL.PLT" 31
   SUMMFILE "19667 Muscoy Warehouse OY.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            6 Warning Message(s)
 A Total of            0 Informational Message(s)
```

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


   ********   WARNING MESSAGES   ********
SO W320     332        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     333        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     334        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     335        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186     744       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     744       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\19667 Muscoy Warehouse OY\19667 Muscoy Warehous ***        11/16/23
*** AERMET - VERSION  16216 ***   *** DPM Conc OY                                                          ***        17:50:03
                                                                                                                    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   241 Source(s),
       for Total of    1 Urban Area(s):
  Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    241 Source(s);       1 Source Group(s); and     450 Receptor(s)
```

```
              with:      4 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:    237 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 PERIOD 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) =   367.00 ;  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 =      4.0 MB of RAM.

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

**Detailed Error/Message File:   19667 Muscoy Warehouse OY.err
**File for Summary of Results:   19667 Muscoy Warehouse OY.sum

*** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\19667 Muscoy Warehouse OY\19667 Muscoy Warehous ***        11/16/23
*** AERMET - VERSION  16216 ***   *** DPM Conc OY                                                          ***        17:50:03
                                                                                                                    PAGE   2

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                            *** POINT SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL. DIAMETER  EXISTS SOURCE HOR   SCALAR
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)  (METERS)                       VARY BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

STCK1           0   0.48400E-05  468016.1 3780895.0   456.0     3.50   366.00    51.82     0.09    YES     YES   NO
```

STCK2	0	0.48400E-05	468050.4	3780852.3	454.9	3.50	366.00	51.82	0.09	YES	YES	NO
STCK3	0	0.48400E-05	468066.4	3780903.6	456.1	3.50	366.00	51.82	0.09	YES	YES	NO
STCK4	0	0.48400E-05	468066.9	3780894.6	455.9	3.50	366.00	51.82	0.09	YES	YES	NO

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.43530E-07	468064.8	3780902.2	456.1	3.50	4.00	10.63	YES	
L0000002	0	0.43530E-07	468056.8	3780899.4	456.0	3.50	4.00	10.63	YES	
L0000003	0	0.43530E-07	468048.9	3780896.7	455.9	3.50	4.00	10.63	YES	
L0000004	0	0.43530E-07	468042.0	3780891.5	455.8	3.50	4.00	10.63	YES	
L0000005	0	0.43530E-07	468035.2	3780886.3	455.7	3.50	4.00	10.63	YES	
L0000006	0	0.43530E-07	468028.7	3780880.7	455.6	3.50	4.00	10.63	YES	
L0000007	0	0.43530E-07	468023.4	3780874.0	455.5	3.50	4.00	10.63	YES	
L0000008	0	0.43530E-07	468025.0	3780866.2	455.4	3.50	4.00	10.63	YES	
L0000009	0	0.43530E-07	468032.2	3780862.9	455.2	3.50	4.00	10.63	YES	
L0000010	0	0.43530E-07	468040.2	3780866.0	455.3	3.50	4.00	10.63	YES	
L0000011	0	0.43530E-07	468046.3	3780872.0	455.4	3.50	4.00	10.63	YES	
L0000012	0	0.43530E-07	468053.1	3780877.3	455.5	3.50	4.00	10.63	YES	
L0000013	0	0.43530E-07	468059.9	3780882.6	455.6	3.50	4.00	10.63	YES	
L0000014	0	0.43530E-07	468065.0	3780889.1	455.7	3.50	4.00	10.63	YES	
L0000015	0	0.43530E-07	468068.6	3780896.6	455.9	3.50	4.00	10.63	YES	
L0000031	0	0.18420E-07	467524.9	3781607.8	473.2	3.50	4.00	1.63	YES	
L0000032	0	0.18420E-07	467530.3	3781601.2	473.1	3.50	4.00	1.63	YES	
L0000033	0	0.18420E-07	467535.7	3781594.5	473.0	3.50	4.00	1.63	YES	
L0000034	0	0.18420E-07	467541.1	3781587.8	473.0	3.50	4.00	1.63	YES	
L0000035	0	0.18420E-07	467546.5	3781581.1	472.9	3.50	4.00	1.63	YES	
L0000036	0	0.18420E-07	467551.8	3781574.4	472.8	3.50	4.00	1.63	YES	
L0000037	0	0.18420E-07	467557.2	3781567.7	472.7	3.50	4.00	1.63	YES	
L0000038	0	0.18420E-07	467562.6	3781561.0	472.3	3.50	4.00	1.63	YES	
L0000039	0	0.18420E-07	467568.0	3781554.3	471.9	3.50	4.00	1.63	YES	
L0000040	0	0.18420E-07	467573.4	3781547.6	471.2	3.50	4.00	1.63	YES	
L0000041	0	0.18420E-07	467578.7	3781540.9	470.4	3.50	4.00	1.63	YES	
L0000042	0	0.18420E-07	467584.1	3781534.2	469.7	3.50	4.00	1.63	YES	
L0000043	0	0.18420E-07	467589.5	3781527.5	469.4	3.50	4.00	1.63	YES	
L0000044	0	0.18420E-07	467594.9	3781520.8	469.5	3.50	4.00	1.63	YES	
L0000045	0	0.18420E-07	467600.3	3781514.1	470.0	3.50	4.00	1.63	YES	
L0000046	0	0.18420E-07	467605.6	3781507.4	470.7	3.50	4.00	1.63	YES	
L0000047	0	0.18420E-07	467611.0	3781500.7	470.9	3.50	4.00	1.63	YES	
L0000048	0	0.18420E-07	467616.4	3781494.0	470.9	3.50	4.00	1.63	YES	
L0000049	0	0.18420E-07	467621.8	3781487.3	470.8	3.50	4.00	1.63	YES	

L0000050	0	0.18420E-07	467627.2	3781480.6	470.6	3.50	4.00	1.63	YES
L0000051	0	0.18420E-07	467632.5	3781473.9	470.4	3.50	4.00	1.63	YES
L0000052	0	0.18420E-07	467637.9	3781467.2	470.3	3.50	4.00	1.63	YES
L0000053	0	0.18420E-07	467643.3	3781460.5	470.1	3.50	4.00	1.63	YES
L0000054	0	0.18420E-07	467648.7	3781453.8	469.9	3.50	4.00	1.63	YES
L0000055	0	0.18420E-07	467654.1	3781447.1	469.6	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000056	0	0.18420E-07	467659.4	3781440.4	469.5	3.50	4.00	1.63	YES	
L0000057	0	0.18420E-07	467664.8	3781433.7	469.3	3.50	4.00	1.63	YES	
L0000058	0	0.18420E-07	467670.2	3781427.0	469.2	3.50	4.00	1.63	YES	
L0000059	0	0.18420E-07	467675.6	3781420.3	469.0	3.50	4.00	1.63	YES	
L0000060	0	0.18420E-07	467681.0	3781413.6	468.8	3.50	4.00	1.63	YES	
L0000061	0	0.18420E-07	467686.3	3781406.9	468.8	3.50	4.00	1.63	YES	
L0000062	0	0.18420E-07	467691.7	3781400.2	468.7	3.50	4.00	1.63	YES	
L0000063	0	0.18420E-07	467697.1	3781393.5	468.5	3.50	4.00	1.63	YES	
L0000064	0	0.18420E-07	467702.5	3781386.8	468.3	3.50	4.00	1.63	YES	
L0000065	0	0.18420E-07	467707.8	3781380.1	468.2	3.50	4.00	1.63	YES	
L0000066	0	0.18420E-07	467713.2	3781373.4	468.1	3.50	4.00	1.63	YES	
L0000067	0	0.18420E-07	467718.6	3781366.7	467.9	3.50	4.00	1.63	YES	
L0000068	0	0.18420E-07	467724.0	3781360.0	467.7	3.50	4.00	1.63	YES	
L0000069	0	0.18420E-07	467729.4	3781353.3	467.5	3.50	4.00	1.63	YES	
L0000070	0	0.18420E-07	467734.7	3781346.6	467.3	3.50	4.00	1.63	YES	
L0000071	0	0.18420E-07	467740.1	3781339.9	467.2	3.50	4.00	1.63	YES	
L0000072	0	0.18420E-07	467745.5	3781333.2	467.0	3.50	4.00	1.63	YES	
L0000073	0	0.18420E-07	467750.9	3781326.5	466.8	3.50	4.00	1.63	YES	
L0000074	0	0.18420E-07	467756.3	3781319.8	466.5	3.50	4.00	1.63	YES	
L0000075	0	0.18420E-07	467761.6	3781313.1	466.4	3.50	4.00	1.63	YES	
L0000076	0	0.18420E-07	467767.0	3781306.4	466.3	3.50	4.00	1.63	YES	
L0000077	0	0.18420E-07	467772.4	3781299.7	466.1	3.50	4.00	1.63	YES	
L0000078	0	0.18420E-07	467777.8	3781293.0	465.9	3.50	4.00	1.63	YES	
L0000079	0	0.18420E-07	467783.2	3781286.3	465.7	3.50	4.00	1.63	YES	
L0000080	0	0.18420E-07	467788.5	3781279.6	465.6	3.50	4.00	1.63	YES	
L0000081	0	0.18420E-07	467793.9	3781273.0	465.5	3.50	4.00	1.63	YES	
L0000082	0	0.18420E-07	467799.3	3781266.3	465.3	3.50	4.00	1.63	YES	
L0000083	0	0.18420E-07	467804.7	3781259.6	465.1	3.50	4.00	1.63	YES	
L0000084	0	0.18420E-07	467810.1	3781252.9	465.0	3.50	4.00	1.63	YES	
L0000085	0	0.18420E-07	467815.4	3781246.2	464.9	3.50	4.00	1.63	YES	
L0000086	0	0.18420E-07	467820.8	3781239.5	464.8	3.50	4.00	1.63	YES	

L0000087	0	0.18420E-07	467826.2	3781232.8	464.6	3.50	4.00	1.63	YES
L0000088	0	0.18420E-07	467831.6	3781226.1	464.4	3.50	4.00	1.63	YES
L0000089	0	0.18420E-07	467837.0	3781219.4	464.2	3.50	4.00	1.63	YES
L0000090	0	0.18420E-07	467842.3	3781212.7	464.0	3.50	4.00	1.63	YES
L0000091	0	0.18420E-07	467847.7	3781206.0	463.8	3.50	4.00	1.63	YES
L0000092	0	0.18420E-07	467853.1	3781199.3	463.6	3.50	4.00	1.63	YES
L0000093	0	0.18420E-07	467858.5	3781192.6	463.4	3.50	4.00	1.63	YES
L0000094	0	0.18420E-07	467863.9	3781185.9	463.3	3.50	4.00	1.63	YES
L0000095	0	0.18420E-07	467869.2	3781179.2	463.1	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000096	0	0.18420E-07	467874.6	3781172.5	462.9	3.50	4.00	1.63	YES	
L0000097	0	0.18420E-07	467880.0	3781165.8	462.8	3.50	4.00	1.63	YES	
L0000098	0	0.18420E-07	467885.4	3781159.1	462.6	3.50	4.00	1.63	YES	
L0000099	0	0.18420E-07	467890.8	3781152.4	462.5	3.50	4.00	1.63	YES	
L0000100	0	0.18420E-07	467896.1	3781145.7	462.3	3.50	4.00	1.63	YES	
L0000101	0	0.18420E-07	467901.5	3781139.0	462.1	3.50	4.00	1.63	YES	
L0000102	0	0.18420E-07	467906.9	3781132.3	462.0	3.50	4.00	1.63	YES	
L0000103	0	0.18420E-07	467912.3	3781125.6	461.8	3.50	4.00	1.63	YES	
L0000104	0	0.18420E-07	467917.6	3781118.9	461.7	3.50	4.00	1.63	YES	
L0000105	0	0.18420E-07	467923.0	3781112.2	461.5	3.50	4.00	1.63	YES	
L0000106	0	0.18420E-07	467928.4	3781105.5	461.4	3.50	4.00	1.63	YES	
L0000107	0	0.18420E-07	467933.8	3781098.8	461.2	3.50	4.00	1.63	YES	
L0000108	0	0.18420E-07	467939.2	3781092.1	461.2	3.50	4.00	1.63	YES	
L0000109	0	0.18420E-07	467944.5	3781085.4	461.1	3.50	4.00	1.63	YES	
L0000110	0	0.18420E-07	467949.9	3781078.7	461.0	3.50	4.00	1.63	YES	
L0000111	0	0.18420E-07	467955.3	3781072.0	460.9	3.50	4.00	1.63	YES	
L0000112	0	0.18420E-07	467960.7	3781065.3	460.8	3.50	4.00	1.63	YES	
L0000113	0	0.18420E-07	467966.1	3781058.6	460.6	3.50	4.00	1.63	YES	
L0000114	0	0.18420E-07	467971.4	3781051.9	460.4	3.50	4.00	1.63	YES	
L0000115	0	0.18420E-07	467976.8	3781045.2	460.3	3.50	4.00	1.63	YES	
L0000116	0	0.18420E-07	467982.2	3781038.5	460.1	3.50	4.00	1.63	YES	
L0000117	0	0.18420E-07	467987.6	3781031.8	459.8	3.50	4.00	1.63	YES	
L0000118	0	0.18420E-07	467993.0	3781025.1	459.6	3.50	4.00	1.63	YES	
L0000119	0	0.18420E-07	467998.3	3781018.4	459.4	3.50	4.00	1.63	YES	
L0000120	0	0.18420E-07	468003.7	3781011.7	459.2	3.50	4.00	1.63	YES	
L0000121	0	0.18420E-07	468009.1	3781005.0	459.0	3.50	4.00	1.63	YES	
L0000122	0	0.18420E-07	468014.5	3780998.3	458.8	3.50	4.00	1.63	YES	
L0000123	0	0.18420E-07	468019.9	3780991.6	458.6	3.50	4.00	1.63	YES	

L0000124	0	0.18420E-07	468025.2	3780984.9	458.4	3.50	4.00	1.63	YES
L0000125	0	0.18420E-07	468030.6	3780978.2	458.2	3.50	4.00	1.63	YES
L0000126	0	0.18420E-07	468036.0	3780971.5	458.0	3.50	4.00	1.63	YES
L0000127	0	0.18420E-07	468041.4	3780964.8	457.9	3.50	4.00	1.63	YES
L0000128	0	0.18420E-07	468046.8	3780958.1	457.7	3.50	4.00	1.63	YES
L0000129	0	0.18420E-07	468052.1	3780951.4	457.5	3.50	4.00	1.63	YES
L0000130	0	0.18420E-07	468057.5	3780944.8	457.4	3.50	4.00	1.63	YES
L0000131	0	0.18420E-07	468062.9	3780938.1	457.2	3.50	4.00	1.63	YES
L0000132	0	0.18420E-07	468068.3	3780931.4	457.1	3.50	4.00	1.63	YES
L0000133	0	0.18420E-07	468073.7	3780924.7	456.9	3.50	4.00	1.63	YES
L0000134	0	0.18420E-07	468079.0	3780918.0	456.8	3.50	4.00	1.63	YES
L0000135	0	0.18420E-07	468084.4	3780911.3	456.6	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000136	0	0.18420E-07	468089.8	3780904.6	456.4	3.50	4.00	1.63	YES	
L0000137	0	0.18420E-07	468095.2	3780897.9	456.2	3.50	4.00	1.63	YES	
L0000138	0	0.18420E-07	468100.6	3780891.2	456.1	3.50	4.00	1.63	YES	
L0000139	0	0.18420E-07	468105.9	3780884.5	455.9	3.50	4.00	1.63	YES	
L0000140	0	0.18420E-07	468111.3	3780877.8	455.8	3.50	4.00	1.63	YES	
L0000141	0	0.18420E-07	468116.7	3780871.1	455.6	3.50	4.00	1.63	YES	
L0000142	0	0.18420E-07	468122.1	3780864.4	455.5	3.50	4.00	1.63	YES	
L0000143	0	0.18420E-07	468127.4	3780857.7	455.3	3.50	4.00	1.63	YES	
L0000144	0	0.18420E-07	468132.8	3780851.0	455.2	3.50	4.00	1.63	YES	
L0000145	0	0.18420E-07	468138.2	3780844.3	455.1	3.50	4.00	1.63	YES	
L0000146	0	0.18420E-07	468143.6	3780837.6	454.9	3.50	4.00	1.63	YES	
L0000147	0	0.18420E-07	468149.0	3780830.9	454.8	3.50	4.00	1.63	YES	
L0000148	0	0.18420E-07	468154.3	3780824.2	454.7	3.50	4.00	1.63	YES	
L0000149	0	0.18420E-07	468159.7	3780817.5	454.6	3.50	4.00	1.63	YES	
L0000150	0	0.18420E-07	468165.1	3780810.8	454.4	3.50	4.00	1.63	YES	
L0000151	0	0.18420E-07	468170.5	3780804.1	454.2	3.50	4.00	1.63	YES	
L0000152	0	0.18420E-07	468175.9	3780797.4	454.1	3.50	4.00	1.63	YES	
L0000153	0	0.18420E-07	468181.2	3780790.7	454.0	3.50	4.00	1.63	YES	
L0000154	0	0.18420E-07	468186.6	3780784.0	453.8	3.50	4.00	1.63	YES	
L0000155	0	0.18420E-07	468192.0	3780777.3	453.6	3.50	4.00	1.63	YES	
L0000156	0	0.18420E-07	468197.4	3780770.6	453.5	3.50	4.00	1.63	YES	
L0000157	0	0.18420E-07	468202.8	3780763.9	453.3	3.50	4.00	1.63	YES	
L0000158	0	0.18420E-07	468208.1	3780757.2	453.2	3.50	4.00	1.63	YES	
L0000159	0	0.18420E-07	468213.5	3780750.5	453.1	3.50	4.00	1.63	YES	
L0000160	0	0.18420E-07	468218.9	3780743.8	452.9	3.50	4.00	1.63	YES	

L0000161	0	0.18420E-07	468224.3	3780737.1	452.7	3.50	4.00	1.63	YES
L0000162	0	0.18420E-07	468229.7	3780730.4	452.6	3.50	4.00	1.63	YES
L0000163	0	0.18420E-07	468235.0	3780723.7	452.4	3.50	4.00	1.63	YES
L0000164	0	0.18420E-07	468240.4	3780717.0	452.3	3.50	4.00	1.63	YES
L0000165	0	0.18420E-07	468245.8	3780710.3	452.1	3.50	4.00	1.63	YES
L0000166	0	0.18420E-07	468251.2	3780703.6	452.0	3.50	4.00	1.63	YES
L0000167	0	0.18420E-07	468256.6	3780696.9	451.8	3.50	4.00	1.63	YES
L0000168	0	0.18420E-07	468261.9	3780690.2	451.7	3.50	4.00	1.63	YES
L0000169	0	0.18420E-07	468267.3	3780683.5	451.5	3.50	4.00	1.63	YES
L0000170	0	0.18420E-07	468272.7	3780676.8	451.4	3.50	4.00	1.63	YES
L0000171	0	0.18420E-07	468278.1	3780670.1	451.2	3.50	4.00	1.63	YES
L0000172	0	0.18420E-07	468283.5	3780663.4	451.1	3.50	4.00	1.63	YES
L0000173	0	0.18420E-07	468288.8	3780656.7	450.9	3.50	4.00	1.63	YES
L0000174	0	0.18420E-07	468294.2	3780650.0	450.7	3.50	4.00	1.63	YES
L0000175	0	0.18420E-07	468299.6	3780643.3	450.6	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000176	0	0.18420E-07	468305.0	3780636.6	450.4	3.50	4.00	1.63	YES	
L0000177	0	0.18420E-07	468310.4	3780629.9	450.3	3.50	4.00	1.63	YES	
L0000178	0	0.18420E-07	468315.7	3780623.2	450.1	3.50	4.00	1.63	YES	
L0000179	0	0.18420E-07	468321.1	3780616.5	449.9	3.50	4.00	1.63	YES	
L0000180	0	0.18420E-07	468326.5	3780609.9	449.8	3.50	4.00	1.63	YES	
L0000181	0	0.18420E-07	468331.9	3780603.2	449.6	3.50	4.00	1.63	YES	
L0000182	0	0.18420E-07	468337.2	3780596.5	449.5	3.50	4.00	1.63	YES	
L0000183	0	0.18420E-07	468342.6	3780589.8	449.3	3.50	4.00	1.63	YES	
L0000184	0	0.18420E-07	468348.0	3780583.1	449.1	3.50	4.00	1.63	YES	
L0000185	0	0.18420E-07	468353.4	3780576.4	448.9	3.50	4.00	1.63	YES	
L0000186	0	0.18420E-07	468358.8	3780569.7	448.7	3.50	4.00	1.63	YES	
L0000187	0	0.18420E-07	468364.1	3780563.0	448.5	3.50	4.00	1.63	YES	
L0000188	0	0.18420E-07	468369.5	3780556.3	448.3	3.50	4.00	1.63	YES	
L0000189	0	0.18420E-07	468374.9	3780549.6	448.1	3.50	4.00	1.63	YES	
L0000190	0	0.18420E-07	468380.3	3780542.9	447.9	3.50	4.00	1.63	YES	
L0000191	0	0.18420E-07	468385.7	3780536.2	447.7	3.50	4.00	1.63	YES	
L0000192	0	0.18420E-07	468391.0	3780529.5	447.5	3.50	4.00	1.63	YES	
L0000193	0	0.18420E-07	468396.4	3780522.8	447.3	3.50	4.00	1.63	YES	
L0000194	0	0.18420E-07	468401.8	3780516.1	447.2	3.50	4.00	1.63	YES	
L0000195	0	0.18420E-07	468407.2	3780509.4	447.0	3.50	4.00	1.63	YES	
L0000196	0	0.18420E-07	468412.6	3780502.7	446.8	3.50	4.00	1.63	YES	
L0000197	0	0.18420E-07	468417.9	3780496.0	446.6	3.50	4.00	1.63	YES	

L0000198	0	0.18420E-07	468423.3	3780489.3	446.4	3.50	4.00	1.63	YES
L0000199	0	0.18420E-07	468428.7	3780482.6	446.2	3.50	4.00	1.63	YES
L0000200	0	0.18420E-07	468434.1	3780475.9	446.1	3.50	4.00	1.63	YES
L0000201	0	0.18420E-07	468439.5	3780469.2	445.8	3.50	4.00	1.63	YES
L0000202	0	0.18420E-07	468444.8	3780462.5	445.6	3.50	4.00	1.63	YES
L0000203	0	0.18420E-07	468450.2	3780455.8	445.4	3.50	4.00	1.63	YES
L0000204	0	0.18420E-07	468455.6	3780449.1	445.3	3.50	4.00	1.63	YES
L0000205	0	0.18420E-07	468461.0	3780442.4	445.1	3.50	4.00	1.63	YES
L0000206	0	0.18420E-07	468466.4	3780435.7	444.8	3.50	4.00	1.63	YES
L0000207	0	0.18420E-07	468471.7	3780429.0	444.6	3.50	4.00	1.63	YES
L0000208	0	0.18420E-07	468477.1	3780422.3	444.5	3.50	4.00	1.63	YES
L0000209	0	0.18420E-07	468482.5	3780415.6	444.3	3.50	4.00	1.63	YES
L0000210	0	0.18420E-07	468487.9	3780408.9	444.1	3.50	4.00	1.63	YES
L0000211	0	0.18420E-07	468493.3	3780402.2	443.9	3.50	4.00	1.63	YES
L0000212	0	0.18420E-07	468498.6	3780395.5	443.7	3.50	4.00	1.63	YES
L0000213	0	0.18420E-07	468504.0	3780388.8	443.6	3.50	4.00	1.63	YES
L0000214	0	0.18420E-07	468509.4	3780382.1	443.4	3.50	4.00	1.63	YES
L0000215	0	0.18420E-07	468514.8	3780375.4	443.3	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000216	0	0.18420E-07	468520.2	3780368.7	443.1	3.50	4.00	1.63	YES	
L0000217	0	0.18420E-07	468525.5	3780362.0	442.9	3.50	4.00	1.63	YES	
L0000218	0	0.18420E-07	468530.9	3780355.3	442.8	3.50	4.00	1.63	YES	
L0000219	0	0.18420E-07	468536.3	3780348.6	442.6	3.50	4.00	1.63	YES	
L0000220	0	0.18420E-07	468541.7	3780341.9	442.5	3.50	4.00	1.63	YES	
L0000221	0	0.18420E-07	468547.0	3780335.2	442.3	3.50	4.00	1.63	YES	
L0000222	0	0.18420E-07	468552.4	3780328.5	442.1	3.50	4.00	1.63	YES	
L0000223	0	0.18420E-07	468557.8	3780321.8	442.0	3.50	4.00	1.63	YES	
L0000224	0	0.18420E-07	468563.2	3780315.1	441.8	3.50	4.00	1.63	YES	
L0000225	0	0.18420E-07	468568.6	3780308.4	441.6	3.50	4.00	1.63	YES	
L0000226	0	0.18420E-07	468573.9	3780301.7	441.4	3.50	4.00	1.63	YES	
L0000227	0	0.18420E-07	468579.3	3780295.0	441.2	3.50	4.00	1.63	YES	
L0000228	0	0.18420E-07	468584.7	3780288.3	441.0	3.50	4.00	1.63	YES	
L0000229	0	0.18420E-07	468590.1	3780281.6	440.8	3.50	4.00	1.63	YES	
L0000230	0	0.18420E-07	468595.5	3780275.0	440.6	3.50	4.00	1.63	YES	
L0000231	0	0.18420E-07	468600.8	3780268.3	440.4	3.50	4.00	1.63	YES	
L0000232	0	0.18420E-07	468606.2	3780261.6	440.2	3.50	4.00	1.63	YES	
L0000233	0	0.18420E-07	468611.6	3780254.9	440.0	3.50	4.00	1.63	YES	
L0000234	0	0.18420E-07	468617.0	3780248.2	439.9	3.50	4.00	1.63	YES	

L0000235	0	0.18420E-07	468622.4	3780241.5	439.7	3.50	4.00	1.63	YES
L0000236	0	0.18420E-07	468627.7	3780234.8	439.5	3.50	4.00	1.63	YES
L0000237	0	0.18420E-07	468633.1	3780228.1	439.3	3.50	4.00	1.63	YES
L0000238	0	0.18420E-07	468638.5	3780221.4	439.2	3.50	4.00	1.63	YES
L0000239	0	0.18420E-07	468643.9	3780214.7	439.0	3.50	4.00	1.63	YES
L0000240	0	0.18420E-07	468649.3	3780208.0	438.9	3.50	4.00	1.63	YES
L0000241	0	0.18420E-07	468654.6	3780201.3	438.7	3.50	4.00	1.63	YES
L0000242	0	0.18420E-07	468660.0	3780194.6	438.6	3.50	4.00	1.63	YES
L0000243	0	0.18420E-07	468665.4	3780187.9	438.4	3.50	4.00	1.63	YES
L0000244	0	0.18420E-07	468670.8	3780181.2	438.3	3.50	4.00	1.63	YES
L0000245	0	0.18420E-07	468676.2	3780174.5	438.1	3.50	4.00	1.63	YES
L0000246	0	0.18420E-07	468681.5	3780167.8	438.0	3.50	4.00	1.63	YES
L0000247	0	0.18420E-07	468686.9	3780161.1	437.8	3.50	4.00	1.63	YES
L0000248	0	0.18420E-07	468692.3	3780154.4	437.7	3.50	4.00	1.63	YES
L0000249	0	0.18420E-07	468697.7	3780147.7	437.6	3.50	4.00	1.63	YES
L0000250	0	0.18420E-07	468703.1	3780141.0	437.4	3.50	4.00	1.63	YES
L0000251	0	0.18420E-07	468708.4	3780134.3	437.2	3.50	4.00	1.63	YES
L0000252	0	0.18420E-07	468713.8	3780127.6	437.0	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	STCK1 , STCK2 , STCK3 , STCK4 , L0000001 , L0000002 , L0000003 , L0000004 ,
	L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,
	L0000013 , L0000014 , L0000015 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,
	L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,
	L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 ,
	L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 ,
	L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 ,
	L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 , L0000074 , L0000075 ,
	L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 ,
	L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 ,

L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 ,

L0000100 , L0000101 , L0000102 , L0000103 , L0000104 , L0000105 , L0000106 , L0000107 ,

L0000108 , L0000109 , L0000110 , L0000111 , L0000112 , L0000113 , L0000114 , L0000115 ,

L0000116 , L0000117 , L0000118 , L0000119 , L0000120 , L0000121 , L0000122 , L0000123 ,

L0000124 , L0000125 , L0000126 , L0000127 , L0000128 , L0000129 , L0000130 , L0000131 ,

L0000132 , L0000133 , L0000134 , L0000135 , L0000136 , L0000137 , L0000138 , L0000139 ,

L0000140 , L0000141 , L0000142 , L0000143 , L0000144 , L0000145 , L0000146 , L0000147 ,

L0000148 , L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 ,

L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 ,

L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , L0000177 , L0000178 , L0000179 ,

L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 ,

L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 ,

L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

L0000204 , L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 ,

L0000212 , L0000213 , L0000214 , L0000215 , L0000216 , L0000217 , L0000218 , L0000219 ,

L0000220 , L0000221 , L0000222 , L0000223 , L0000224 , L0000225 , L0000226 , L0000227 ,

L0000228 , L0000229 , L0000230 , L0000231 , L0000232 , L0000233 , L0000234 , L0000235 ,

L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 ,

L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
	2035210.	STCK1 , STCK2 , STCK3 , STCK4 , L0000001 , L0000002 , L0000003 , L0000004 ,
		L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 ,
		L0000013 , L0000014 , L0000015 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,
		L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,
		L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 ,
		L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 ,
		L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 ,
		L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 , L0000074 , L0000075 ,
		L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 ,
		L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 ,
		L0000092 , L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 ,
		L0000100 , L0000101 , L0000102 , L0000103 , L0000104 , L0000105 , L0000106 , L0000107 ,
		L0000108 , L0000109 , L0000110 , L0000111 , L0000112 , L0000113 , L0000114 , L0000115 ,
		L0000116 , L0000117 , L0000118 , L0000119 , L0000120 , L0000121 , L0000122 , L0000123 ,
		L0000124 , L0000125 , L0000126 , L0000127 , L0000128 , L0000129 , L0000130 , L0000131 ,
		L0000132 , L0000133 , L0000134 , L0000135 , L0000136 , L0000137 , L0000138 , L0000139 ,
		L0000140 , L0000141 , L0000142 , L0000143 , L0000144 , L0000145 , L0000146 , L0000147 ,
		L0000148 , L0000149 , L0000150 , L0000151 , L0000152 , L0000153 , L0000154 , L0000155 ,

L0000156 , L0000157 , L0000158 , L0000159 , L0000160 , L0000161 , L0000162 , L0000163 ,

L0000164 , L0000165 , L0000166 , L0000167 , L0000168 , L0000169 , L0000170 , L0000171 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0000172 , L0000173 , L0000174 , L0000175 , L0000176 , L0000177 , L0000178 , L0000179 ,

L0000180 , L0000181 , L0000182 , L0000183 , L0000184 , L0000185 , L0000186 , L0000187 ,

L0000188 , L0000189 , L0000190 , L0000191 , L0000192 , L0000193 , L0000194 , L0000195 ,

L0000196 , L0000197 , L0000198 , L0000199 , L0000200 , L0000201 , L0000202 , L0000203 ,

L0000204 , L0000205 , L0000206 , L0000207 , L0000208 , L0000209 , L0000210 , L0000211 ,

L0000212 , L0000213 , L0000214 , L0000215 , L0000216 , L0000217 , L0000218 , L0000219 ,

L0000220 , L0000221 , L0000222 , L0000223 , L0000224 , L0000225 , L0000226 , L0000227 ,

L0000228 , L0000229 , L0000230 , L0000231 , L0000232 , L0000233 , L0000234 , L0000235 ,

L0000236 , L0000237 , L0000238 , L0000239 , L0000240 , L0000241 , L0000242 , L0000243 ,

L0000244 , L0000245 , L0000246 , L0000247 , L0000248 , L0000249 , L0000250 , L0000251 ,

L0000252 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	22.9,	113.9,	94.8,	-5.9,	26.0,	2	22.9,	114.4,	91.3,	-10.7,	31.7,
3	22.9,	111.4,	85.0,	-15.2,	36.4,	4	22.9,	105.0,	76.2,	-19.2,	40.1,

5	22.9,	95.5,	65.0,	-22.6,	42.5,	6	22.9,	96.8,	79.0,	-36.8,	45.4,
7	22.9,	98.4,	92.2,	-51.0,	47.8,	8	22.9,	97.0,	102.6,	-63.7,	48.7,
9	22.9,	95.4,	109.9,	-74.4,	46.8,	10	22.9,	94.8,	113.9,	-82.9,	41.5,
11	22.9,	91.3,	114.4,	-88.9,	34.9,	12	22.9,	85.0,	111.4,	-92.1,	27.3,
13	22.9,	76.2,	105.0,	-92.6,	18.9,	14	22.9,	65.0,	95.5,	-90.2,	9.9,
15	22.9,	79.0,	96.8,	-93.8,	2.7,	16	22.9,	92.2,	98.4,	-97.0,	-4.9,
17	22.9,	102.6,	97.0,	-97.2,	-12.4,	18	22.9,	109.9,	95.4,	-94.5,	-19.5,
19	22.9,	113.9,	94.8,	-88.9,	-26.0,	20	22.9,	114.4,	91.3,	-80.6,	-31.7,
21	22.9,	111.4,	85.0,	-69.9,	-36.4,	22	22.9,	105.0,	76.2,	-57.0,	-40.1,
23	22.9,	95.5,	65.0,	-42.4,	-42.5,	24	22.9,	96.8,	79.0,	-42.2,	-45.4,
25	22.9,	98.4,	92.2,	-41.2,	-47.8,	26	22.9,	97.0,	102.6,	-39.0,	-48.7,
27	22.9,	95.4,	109.9,	-35.5,	-46.8,	28	22.9,	94.8,	113.9,	-31.0,	-41.5,
29	22.9,	91.3,	114.4,	-25.5,	-34.9,	30	22.9,	85.0,	111.4,	-19.3,	-27.3,
31	22.9,	76.2,	105.0,	-12.4,	-18.9,	32	22.9,	65.0,	95.5,	-5.2,	-9.9,
33	22.9,	79.0,	96.8,	-3.0,	-2.7,	34	22.9,	92.2,	98.4,	-1.4,	4.9,
35	22.9,	102.6,	97.0,	0.2,	12.4,	36	22.9,	109.9,	95.4,	-0.9,	19.5,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	22.9,	113.9,	94.8,	30.2,	67.1,	2	22.9,	81.7,	95.0,	-57.2,	-42.7,
3	22.9,	82.4,	88.0,	-47.3,	-41.4,	4	22.9,	80.6,	78.3,	-36.1,	-38.8,
5	22.9,	76.4,	66.2,	-23.8,	-35.1,	6	22.9,	85.7,	71.5,	-19.3,	-33.3,
7	22.9,	93.4,	78.1,	-15.3,	-30.2,	8	22.9,	98.3,	82.3,	-10.9,	-26.1,
9	22.9,	100.3,	84.0,	-6.2,	-21.2,	10	22.9,	99.1,	83.1,	-1.2,	-15.7,
11	22.9,	95.0,	81.7,	1.9,	-9.7,	12	22.9,	85.0,	111.4,	-143.1,	47.2,
13	22.9,	76.2,	105.0,	-146.3,	29.6,	14	22.9,	65.0,	95.5,	-145.0,	11.1,
15	22.9,	79.0,	96.8,	-147.9,	-5.5,	16	22.9,	92.2,	98.4,	-148.8,	-22.4,
17	22.9,	102.6,	97.0,	-145.2,	-38.6,	18	22.9,	109.9,	95.4,	-137.2,	-53.7,
19	22.9,	113.9,	94.8,	-125.0,	-67.1,	20	22.9,	81.7,	95.0,	-37.9,	42.7,
21	22.9,	82.4,	88.0,	-40.6,	41.4,	22	22.9,	80.6,	78.3,	-42.2,	38.8,
23	22.9,	76.4,	66.2,	-42.5,	35.1,	24	22.9,	85.7,	71.5,	-52.2,	33.3,
25	22.9,	93.4,	78.1,	-62.8,	30.2,	26	22.9,	98.3,	82.3,	-71.4,	26.1,
27	22.9,	100.3,	84.0,	-77.8,	21.2,	28	22.9,	99.1,	83.1,	-81.9,	15.7,
29	22.9,	95.0,	81.7,	-83.5,	9.7,	30	22.9,	85.0,	111.4,	31.8,	-47.2,
31	22.9,	76.2,	105.0,	41.3,	-29.6,	32	22.9,	66.2,	76.4,	-73.3,	-9.4,
33	22.9,	71.5,	85.7,	-76.2,	-16.5,	34	22.9,	78.1,	93.4,	-76.9,	-23.7,
35	22.9,	82.3,	98.3,	-75.2,	-30.2,	36	22.9,	109.9,	95.4,	41.8,	53.7,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	22.9,	83.1,	99.1,	-118.6,	-33.5,	2	22.9,	81.7,	95.0,	-110.9,	-45.2,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	22.9,	98.4,	92.2,	-101.1,	56.8,	8	22.9,	97.0,	102.6,	-114.6,	48.9,
9	22.9,	95.4,	109.9,	-124.6,	38.1,	10	22.9,	94.8,	113.9,	-130.9,	24.3,
11	22.9,	91.3,	114.4,	-133.1,	9.7,	12	22.9,	85.0,	111.4,	-131.3,	-5.2,
13	22.9,	76.2,	105.0,	-125.5,	-20.0,	14	22.9,	65.0,	95.5,	-115.9,	-34.1,
15	22.9,	79.0,	96.8,	-111.4,	-45.1,	16	22.9,	92.2,	98.4,	-106.0,	-55.0,
17	22.9,	82.3,	98.3,	24.7,	5.6,	18	22.9,	84.0,	100.3,	22.4,	19.8,

19	22.9,	83.1,	99.1,	19.4,	33.5,	20	22.9,	81.7,	95.0,	15.9,	45.2,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	22.9,	98.4,	92.2,	8.9,	-56.8,	26	22.9,	97.0,	102.6,	12.0,	-48.9,
27	22.9,	95.4,	109.9,	14.7,	-38.1,	28	22.9,	94.8,	113.9,	17.0,	-24.3,
29	22.9,	91.3,	114.4,	18.7,	-9.7,	30	22.9,	85.0,	111.4,	19.9,	5.2,
31	22.9,	76.2,	105.0,	20.5,	20.0,	32	22.9,	65.0,	95.5,	20.5,	34.1,
33	22.9,	79.0,	96.8,	14.6,	45.1,	34	22.9,	92.2,	98.4,	7.6,	55.0,
35	22.9,	82.3,	98.3,	-123.0,	-5.6,	36	22.9,	84.0,	100.3,	-122.7,	-19.8,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	22.9,	83.1,	99.1,	-109.8,	-31.4,	2	22.9,	81.7,	95.0,	-102.6,	-41.6,
3	22.9,	82.4,	88.0,	-92.3,	-48.2,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	22.9,	97.0,	102.6,	-113.6,	57.9,
9	22.9,	95.4,	109.9,	-125.2,	47.2,	10	22.9,	94.8,	113.9,	-133.0,	33.1,
11	22.9,	91.3,	114.4,	-136.7,	18.0,	12	22.9,	85.0,	111.4,	-136.3,	2.3,
13	22.9,	76.2,	105.0,	-131.7,	-13.4,	14	22.9,	65.0,	95.5,	-123.2,	-28.7,
15	22.9,	79.0,	96.8,	-119.5,	-41.0,	16	22.9,	92.2,	98.4,	-114.7,	-52.4,
17	22.9,	102.6,	97.0,	-106.4,	-62.3,	18	22.9,	84.0,	100.3,	13.4,	19.3,
19	22.9,	83.1,	99.1,	10.6,	31.4,	20	22.9,	81.7,	95.0,	7.6,	41.6,
21	22.9,	82.4,	88.0,	4.3,	48.2,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	22.9,	97.0,	102.6,	11.0,	-57.9,
27	22.9,	95.4,	109.9,	15.2,	-47.2,	28	22.9,	94.8,	113.9,	19.1,	-33.1,
29	22.9,	91.3,	114.4,	22.3,	-18.0,	30	22.9,	85.0,	111.4,	24.9,	-2.3,
31	22.9,	76.2,	105.0,	26.7,	13.4,	32	22.9,	65.0,	95.5,	27.7,	28.7,
33	22.9,	79.0,	96.8,	22.7,	41.0,	34	22.9,	92.2,	98.4,	16.3,	52.4,
35	22.9,	102.6,	97.0,	9.4,	62.3,	36	22.9,	84.0,	100.3,	-113.6,	-19.3,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

467299.3, 467374.3, 467449.3, 467524.3, 467599.3, 467674.3, 467749.3, 467824.3, 467899.3, 467974.3,
468049.3, 468124.3, 468199.3, 468274.3, 468349.3, 468424.3, 468499.3, 468574.3, 468649.3, 468724.3,
468799.3,

*** Y-COORDINATES OF GRID ***
(METERS)

3780106.0, 3780181.0, 3780256.0, 3780331.0, 3780406.0, 3780481.0, 3780556.0, 3780631.0, 3780706.0, 3780781.0,
3780856.0, 3780931.0, 3781006.0, 3781081.0, 3781156.0, 3781231.0, 3781306.0, 3781381.0, 3781456.0, 3781531.0,
3781606.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	467299.29	467374.29	467449.29	467524.29	467599.29	467674.29	467749.29	467824.29	467899.29
3781606.01	476.20	475.10	473.80	473.20	473.70	470.50	472.70	472.00	471.40
3781531.01	474.60	473.90	472.80	471.90	469.20	471.60	470.20	470.20	470.70
3781456.01	473.10	472.60	471.80	467.80	470.80	470.20	469.30	468.70	468.60
3781381.01	471.70	471.40	468.10	470.60	468.00	468.20	468.50	468.30	468.60
3781306.01	470.40	468.10	470.20	467.30	467.00	465.90	466.20	466.40	466.10
3781231.01	467.80	469.80	466.00	466.30	465.30	464.80	464.40	464.60	464.30
3781156.01	468.20	465.50	465.40	465.30	464.70	463.60	463.70	462.60	462.70
3781081.01	465.10	464.00	463.80	463.20	462.80	462.70	462.00	461.50	460.90
3781006.01	464.00	463.70	463.10	462.50	461.70	460.70	460.30	460.20	459.60
3780931.01	462.70	462.10	461.70	461.10	459.90	458.70	459.00	459.00	457.80
3780856.01	461.30	460.40	460.00	459.60	458.20	457.30	457.30	456.90	456.20
3780781.01	459.50	458.60	458.30	458.10	457.40	456.20	455.70	455.80	455.00
3780706.01	458.40	457.10	456.30	456.20	455.60	454.60	454.20	454.20	453.50
3780631.01	457.50	456.40	455.00	454.50	454.20	453.70	453.00	452.70	452.00
3780556.01	456.00	455.20	454.00	452.70	452.40	451.90	451.40	451.40	450.40
3780481.01	454.50	454.00	452.90	451.80	450.80	450.20	449.90	449.80	448.90
3780406.01	453.00	452.40	451.40	450.40	449.40	448.70	448.20	448.20	447.50
3780331.01	451.40	450.70	449.80	449.10	448.20	447.60	446.70	446.70	446.20
3780256.01	449.90	449.20	448.40	447.50	446.90	446.50	445.50	445.10	444.80
3780181.01	448.10	447.80	447.10	446.40	445.90	445.30	444.50	443.80	443.10
3780106.01	446.90	446.20	445.40	444.70	444.20	443.80	443.10	442.60	442.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	467974.29	468049.29	468124.29	468199.29	468274.29	468349.29	468424.29	468499.29	468574.29

3781606.01	471.10	471.70	470.80	469.20	468.60	468.10	468.60	467.10	465.60
3781531.01	470.60	470.50	468.10	466.90	467.10	467.40	467.20	466.90	464.60
3781456.01	470.80	468.20	467.00	466.10	466.00	465.40	464.80	463.70	464.70
3781381.01	465.80	466.80	465.70	464.40	465.40	464.80	463.60	463.30	462.70
3781306.01	464.50	464.30	463.50	464.10	464.00	462.90	462.40	461.30	461.30
3781231.01	464.60	463.70	462.60	464.00	462.00	462.10	460.30	459.80	459.20
3781156.01	463.10	463.70	462.70	460.80	460.50	459.70	459.80	458.50	457.60
3781081.01	461.30	461.10	460.00	458.40	457.80	457.70	457.90	456.60	455.70
3781006.01	458.90	459.20	458.60	458.20	457.80	455.60	455.00	455.50	454.70
3780931.01	457.20	456.80	457.00	456.20	455.20	454.10	453.40	453.20	453.70
3780856.01	455.60	455.00	455.20	454.70	455.20	454.90	452.70	452.60	452.60
3780781.01	453.90	453.40	453.30	453.80	453.00	452.80	452.20	451.10	450.00
3780706.01	452.90	451.90	451.60	451.80	452.00	451.30	451.50	450.90	448.20
3780631.01	451.50	450.90	450.20	450.10	450.30	450.00	449.60	447.30	447.00
3780556.01	449.80	449.30	448.50	448.30	448.60	448.40	447.90	447.40	447.00
3780481.01	448.30	447.70	447.20	446.80	446.80	446.70	446.20	445.60	446.00
3780406.01	446.90	446.30	445.50	445.00	445.30	445.00	444.50	444.10	443.60
3780331.01	445.80	445.10	444.40	443.80	443.40	443.20	443.20	442.40	442.30
3780256.01	444.70	445.00	445.00	442.40	441.70	441.30	441.00	440.90	439.90
3780181.01	444.40	445.60	449.20	441.60	440.20	439.70	439.50	439.40	438.30
3780106.01	452.60	450.80	450.90	440.10	438.90	438.40	437.90	438.10	437.10

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 468649.29	468724.29	468799.29
3781606.01	464.70	463.80	462.80
3781531.01	463.50	462.20	461.50
3781456.01	462.20	461.40	460.20
3781381.01	462.00	459.90	458.90
3781306.01	461.30	458.40	456.90
3781231.01	457.90	459.30	455.50
3781156.01	455.50	456.30	456.30
3781081.01	455.20	454.50	455.20
3781006.01	454.40	453.20	451.80
3780931.01	453.90	453.10	451.20
3780856.01	451.20	450.40	450.10
3780781.01	450.10	449.10	449.00
3780706.01	448.30	447.80	447.30
3780631.01	446.40	446.70	445.50

3780556.01	445.70	444.30	444.70
3780481.01	444.60	442.50	442.50
3780406.01	442.20	441.50	439.90
3780331.01	441.40	439.80	438.90
3780256.01	440.10	438.70	438.70
3780181.01	437.90	438.10	437.80
3780106.01	436.30	436.50	436.80

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 467299.29	467374.29	467449.29	467524.29	467599.29	467674.29	467749.29	467824.29	467899.29
3781606.01	2697.30	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80
3781531.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3781456.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3781381.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3781306.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3781231.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3781156.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3781081.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3781006.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3780931.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3780856.01	2697.30	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80
3780781.01	2697.30	2697.30	2697.30	2697.30	2696.70	2630.80	2630.80	2630.80	2630.80
3780706.01	2697.30	2697.30	2697.30	2697.30	2696.70	2630.80	2630.80	2630.80	2630.80
3780631.01	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80	1875.00
3780556.01	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80	1875.00
3780481.01	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80	1875.00
3780406.01	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80	1875.00
3780331.01	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80	1875.00
3780256.01	2697.30	2697.30	2697.30	2697.30	2630.80	2630.80	2630.80	2630.80	1875.00
3780181.01	2697.30	2697.30	2697.30	2696.70	2630.80	2630.80	2630.80	2629.80	1875.00
3780106.01	2697.30	2697.30	2697.30	2696.70	2630.80	2630.80	2630.80	1875.00	1875.00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	467974.29	468049.29	468124.29	468199.29	468274.29	468349.29	468424.29	468499.29	468574.29
3781606.01	2630.80	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3781531.01	2630.80	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3781456.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3781381.01	2630.80	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3781306.01	2630.80	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3781231.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3781156.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3781081.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3781006.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780931.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780856.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780781.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780706.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780631.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780556.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780481.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780406.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780331.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780256.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780181.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00
3780106.01	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00	1875.00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	468649.29	468724.29	468799.29
3781606.01	1875.00	1875.00	1875.00
3781531.01	1875.00	1875.00	1875.00
3781456.01	1875.00	1875.00	1875.00
3781381.01	1875.00	1875.00	1875.00
3781306.01	1875.00	1875.00	1875.00
3781231.01	1875.00	1875.00	1875.00
3781156.01	1875.00	1875.00	1875.00
3781081.01	1875.00	1875.00	1875.00
3781006.01	1875.00	1875.00	1875.00
3780931.01	1875.00	1875.00	1875.00
3780856.01	1875.00	1875.00	1875.00

3780781.01	1875.00	1875.00	1875.00
3780706.01	1875.00	1875.00	1875.00
3780631.01	1875.00	1875.00	1875.00
3780556.01	1875.00	1875.00	1875.00
3780481.01	1875.00	1875.00	1875.00
3780406.01	1875.00	1875.00	1875.00
3780331.01	1875.00	1875.00	1875.00
3780256.01	1875.00	1875.00	1875.00
3780181.01	1875.00	1875.00	1875.00
3780106.01	1875.00	1875.00	1875.00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

(467994.3,	3780857.0,	455.4,	1875.0,	0.0);	(468002.5,	3780843.5,	455.0,	1875.0,	0.0);
(467977.7,	3780871.0,	455.9,	1875.0,	0.0);	(468013.7,	3780824.5,	454.6,	1875.0,	0.0);
(467952.1,	3780911.1,	457.0,	1875.0,	0.0);	(468026.7,	3780817.8,	454.3,	1875.0,	0.0);
(468065.0,	3780766.2,	453.1,	1875.0,	0.0);	(468226.1,	3780694.9,	451.6,	1875.0,	0.0);
(467792.0,	3781224.7,	464.6,	2630.8,	0.0);					

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0000031	467524.3	3781606.0	-6.65
L0000032	467524.3	3781606.0	-0.85
L0000086	467824.3	3781231.0	0.54
L0000087	467824.3	3781231.0	-6.01
L0000088	467824.3	3781231.0	0.21
L0000099	467899.3	3781156.0	0.68
L0000142	468124.3	3780856.0	0.05
L0000143	468124.3	3780856.0	-5.03
L0000155	468199.3	3780781.0	-0.42
L0000198	468424.3	3780481.0	-0.27
L0000199	468424.3	3780481.0	-3.92
L0000211	468499.3	3780406.0	-1.47

*** 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 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1			

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: E:\New MET data\FONT_V9_ADJU\FONT_v9.SFC Met Version: 16216
Profile file: E:\New MET data\FONT_V9_ADJU\FONT_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3102 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2011 Year: 2011

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
11	01	01	1	01	-18.5	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82	1.00	1.80	69.	9.1	276.4	5.5
11	01	01	1	02	-23.8	0.239	-9.000	-9.000	-999.	281.	63.0	0.25	2.82	1.00	2.20	52.	9.1	275.4	5.5
11	01	01	1	03	-18.5	0.194	-9.000	-9.000	-999.	205.	41.2	0.25	2.82	1.00	1.80	32.	9.1	275.4	5.5
11	01	01	1	04	-1.4	0.067	-9.000	-9.000	-999.	57.	18.3	0.25	2.82	1.00	0.40	27.	9.1	274.2	5.5
11	01	01	1	05	-18.6	0.194	-9.000	-9.000	-999.	204.	41.2	0.25	2.82	1.00	1.80	51.	9.1	274.2	5.5
11	01	01	1	06	-29.7	0.296	-9.000	-9.000	-999.	387.	96.6	0.25	2.82	1.00	2.70	53.	9.1	274.2	5.5

```
11 01 01   1 07  -24.0  0.239 -9.000 -9.000 -999.  282.     63.0  0.25   2.82   1.00    2.20   70.    9.1  274.2    5.5
11 01 01   1 08   -8.4  0.138 -9.000 -9.000 -999.  127.     27.3  0.25   2.82   0.54    1.30   72.    9.1  275.4    5.5
11 01 01   1 09   44.3  0.280  0.571  0.005  147.  356.    -43.5  0.25   2.82   0.32    2.20   67.    9.1  277.5    5.5
11 01 01   1 10  122.7  0.264  0.952  0.005  247.  326.    -13.2  0.25   2.82   0.25    1.80   83.    9.1  279.9    5.5
11 01 01   1 11  179.8  0.316  1.733  0.005 1017.  426.    -15.4  0.25   2.82   0.22    2.20   58.    9.1  282.0    5.5
11 01 01   1 12  206.0  0.320  1.940  0.008 1244.  435.    -14.0  0.25   2.82   0.21    2.20  115.    9.1  283.1    5.5
11 01 01   1 13  132.6  0.214  1.733  0.009 1377.  243.     -6.5  0.25   2.82   0.21    1.30  147.    9.1  284.2    5.5
11 01 01   1 14  147.0  0.216  1.818  0.009 1431.  242.     -6.0  0.25   2.82   0.23    1.30  219.    9.1  284.9    5.5
11 01 01   1 15  104.0  0.208  1.633  0.009 1468.  228.     -7.6  0.25   2.82   0.26    1.30  126.    9.1  285.4    5.5
11 01 01   1 16   26.4  0.140  1.037  0.009 1477.  127.     -9.1  0.25   2.82   0.35    0.90  151.    9.1  284.9    5.5
11 01 01   1 17   -9.0  0.137 -9.000 -9.000 -999.  121.     24.9  0.25   2.82   0.63    1.30   69.    9.1  283.1    5.5
11 01 01   1 18  -33.4  0.342 -9.000 -9.000 -999.  481.    129.0  0.25   2.82   1.00    3.10   81.    9.1  281.4    5.5
11 01 01   1 19  -33.6  0.342 -9.000 -9.000 -999.  481.    128.9  0.25   2.82   1.00    3.10   51.    9.1  279.9    5.5
11 01 01   1 20  -23.6  0.239 -9.000 -9.000 -999.  287.     63.1  0.25   2.82   1.00    2.20   77.    9.1  278.8    5.5
11 01 01   1 21  -18.5  0.194 -9.000 -9.000 -999.  205.     41.2  0.25   2.82   1.00    1.80   53.    9.1  277.5    5.5
11 01 01   1 22  -23.7  0.239 -9.000 -9.000 -999.  281.     63.0  0.25   2.82   1.00    2.20   58.    9.1  277.5    5.5
11 01 01   1 23  -18.5  0.194 -9.000 -9.000 -999.  205.     41.2  0.25   2.82   1.00    1.80   64.    9.1  277.5    5.5
11 01 01   1 24   -4.5  0.094 -9.000 -9.000 -999.   74.     16.3  0.25   2.82   1.00    0.90   52.    9.1  277.0    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
11 01 01 01    5.5 0 -999.  -99.00   276.5   99.0  -99.00  -99.00
11 01 01 01    9.1 1   69.    1.80  -999.0   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\19667 Muscoy Warehouse OY\19667 Muscoy Warehous ***        11/16/23
*** AERMET - VERSION  16216 ***   *** DPM Conc OY                                                          ***        17:50:03
                                                                                                                    PAGE  25

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                            INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , L0000001    ,
               L0000002    , L0000003    , L0000004    , L0000005    , L0000006    , L0000007    , L0000008    , L0000009    ,
               L0000010    , L0000011    , L0000012    , L0000013    , L0000014    , L0000015    , L0000031    , L0000032    ,
               L0000033    , L0000034    , L0000035    , L0000036    , L0000037    , L0000038    , L0000039    ,  . . .      ,

                              *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     467299.29    467374.29    467449.29    467524.29    467599.29    467674.29    467749.29    467824.29    467899.29
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3781606.01 |       0.00002      0.00003      0.00004      0.00010      0.00008      0.00006      0.00005      0.00004      0.00004
 3781531.01 |       0.00002      0.00003      0.00004      0.00009      0.00026      0.00009      0.00006      0.00005      0.00005
 3781456.01 |       0.00003      0.00003      0.00004      0.00006      0.00012      0.00019      0.00009      0.00007      0.00006
 3781381.01 |       0.00003      0.00004      0.00005      0.00006      0.00008      0.00017      0.00016      0.00010      0.00008
 3781306.01 |       0.00003      0.00004      0.00005      0.00006      0.00007      0.00010      0.00026      0.00015      0.00011
```

3781231.01	0.00003	0.00004	0.00005	0.00006	0.00007	0.00010	0.00013	0.00022	0.00016
3781156.01	0.00004	0.00004	0.00005	0.00006	0.00008	0.00010	0.00012	0.00018	0.00033
3781081.01	0.00004	0.00005	0.00006	0.00007	0.00008	0.00010	0.00013	0.00018	0.00028
3781006.01	0.00005	0.00006	0.00007	0.00008	0.00010	0.00012	0.00016	0.00022	0.00034
3780931.01	0.00005	0.00006	0.00008	0.00009	0.00011	0.00015	0.00019	0.00027	0.00044
3780856.01	0.00006	0.00007	0.00008	0.00010	0.00013	0.00017	0.00022	0.00032	0.00052
3780781.01	0.00006	0.00007	0.00009	0.00011	0.00014	0.00018	0.00023	0.00032	0.00047
3780706.01	0.00006	0.00008	0.00009	0.00011	0.00014	0.00017	0.00022	0.00029	0.00041
3780631.01	0.00006	0.00008	0.00009	0.00011	0.00013	0.00016	0.00021	0.00027	0.00037
3780556.01	0.00006	0.00007	0.00009	0.00011	0.00013	0.00016	0.00019	0.00025	0.00033
3780481.01	0.00006	0.00007	0.00008	0.00010	0.00012	0.00015	0.00018	0.00023	0.00028
3780406.01	0.00006	0.00007	0.00008	0.00009	0.00011	0.00014	0.00017	0.00021	0.00024
3780331.01	0.00005	0.00006	0.00007	0.00009	0.00010	0.00013	0.00016	0.00019	0.00019
3780256.01	0.00005	0.00006	0.00007	0.00008	0.00010	0.00012	0.00014	0.00016	0.00016
3780181.01	0.00005	0.00005	0.00006	0.00007	0.00009	0.00011	0.00013	0.00014	0.00013
3780106.01	0.00004	0.00005	0.00006	0.00007	0.00008	0.00010	0.00011	0.00011	0.00010

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , L0000001 ,
L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 ,
L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000031 , L0000032 ,
L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 467974.29	468049.29	468124.29	468199.29	468274.29	468349.29	468424.29	468499.29	468574.29
3781606.01	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00004	0.00005	0.00005
3781531.01	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00006	0.00006	0.00007
3781456.01	0.00006	0.00006	0.00006	0.00006	0.00006	0.00007	0.00008	0.00008	0.00009
3781381.01	0.00007	0.00007	0.00007	0.00008	0.00008	0.00009	0.00010	0.00011	0.00012
3781306.01	0.00010	0.00009	0.00010	0.00010	0.00011	0.00013	0.00015	0.00015	0.00015
3781231.01	0.00013	0.00013	0.00013	0.00014	0.00017	0.00019	0.00021	0.00020	0.00019
3781156.01	0.00020	0.00017	0.00019	0.00024	0.00028	0.00028	0.00028	0.00026	0.00023
3781081.01	0.00038	0.00029	0.00036	0.00044	0.00043	0.00040	0.00036	0.00031	0.00027
3781006.01	0.00053	0.00072	0.00081	0.00076	0.00065	0.00053	0.00041	0.00033	0.00027
3780931.01	0.00082	0.00160	0.00191	0.00117	0.00075	0.00051	0.00037	0.00029	0.00023
3780856.01	0.00098	0.00126	0.00159	0.00078	0.00049	0.00035	0.00026	0.00021	0.00017
3780781.01	0.00075	0.00092	0.00053	0.00053	0.00031	0.00024	0.00019	0.00015	0.00013
3780706.01	0.00060	0.00058	0.00033	0.00029	0.00034	0.00019	0.00015	0.00012	0.00010
3780631.01	0.00046	0.00038	0.00025	0.00020	0.00025	0.00022	0.00014	0.00011	0.00009
3780556.01	0.00035	0.00027	0.00020	0.00015	0.00015	0.00027	0.00017	0.00010	0.00008

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 3780481.01 |       0.00027      0.00021      0.00016      0.00012      0.00011      0.00013      0.00024      0.00013      0.00008
 3780406.01 |       0.00021      0.00016      0.00013      0.00011      0.00009      0.00009      0.00012      0.00026      0.00010
 3780331.01 |       0.00016      0.00013      0.00011      0.00009      0.00008      0.00008      0.00008      0.00013      0.00021
 3780256.01 |       0.00013      0.00011      0.00010      0.00008      0.00007      0.00006      0.00006      0.00008      0.00015
 3780181.01 |       0.00011      0.00009      0.00008      0.00007      0.00006      0.00005      0.00005      0.00006      0.00007
 3780106.01 |       0.00010      0.00008      0.00007      0.00006      0.00005      0.00005      0.00004      0.00004      0.00005

*** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\19667 Muscoy Warehouse OY\19667 Muscoy Warehous ***        11/16/23
*** AERMET - VERSION  16216 ***   *** DPM Conc OY                                                          ***        17:50:03
                                                                                                                    PAGE  27

*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , L0000001    ,
                L0000002    , L0000003    , L0000004    , L0000005    , L0000006    , L0000007    , L0000008    , L0000009    ,
                L0000010    , L0000011    , L0000012    , L0000013    , L0000014    , L0000015    , L0000031    , L0000032    ,
                L0000033    , L0000034    , L0000035    , L0000036    , L0000037    , L0000038    , L0000039    ,  . . .      ,

                               *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     468649.29    468724.29    468799.29
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3781606.01 |       0.00005      0.00006      0.00006
 3781531.01 |       0.00007      0.00007      0.00007
 3781456.01 |       0.00009      0.00009      0.00008
 3781381.01 |       0.00012      0.00011      0.00010
 3781306.01 |       0.00015      0.00013      0.00012
 3781231.01 |       0.00017      0.00016      0.00013
 3781156.01 |       0.00020      0.00017      0.00015
 3781081.01 |       0.00022      0.00018      0.00015
 3781006.01 |       0.00022      0.00017      0.00014
 3780931.01 |       0.00019      0.00015      0.00012
 3780856.01 |       0.00014      0.00012      0.00010
 3780781.01 |       0.00011      0.00009      0.00008
 3780706.01 |       0.00009      0.00008      0.00007
 3780631.01 |       0.00008      0.00007      0.00006
 3780556.01 |       0.00007      0.00006      0.00005
 3780481.01 |       0.00007      0.00005      0.00005
 3780406.01 |       0.00007      0.00005      0.00004
 3780331.01 |       0.00008      0.00006      0.00004
 3780256.01 |       0.00015      0.00007      0.00004
 3780181.01 |       0.00019      0.00010      0.00004
 3780106.01 |       0.00006      0.00007      0.00004

*** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\19667 Muscoy Warehouse OY\19667 Muscoy Warehous ***        11/16/23
*** AERMET - VERSION  16216 ***   *** DPM Conc OY                                                          ***        17:50:03
                                                                                                                    PAGE  28
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , L0000001    ,
                    L0000002    , L0000003    , L0000004    , L0000005    , L0000006    , L0000007    , L0000008    , L0000009    ,
                    L0000010    , L0000011    , L0000012    , L0000013    , L0000014    , L0000015    , L0000031    , L0000032    ,
                    L0000033    , L0000034    , L0000035    , L0000036    , L0000037    , L0000038    , L0000039    ,  . . .      ,

                                          *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       467994.34    3780857.02       0.00114                     468002.53    3780843.47       0.00115
       467977.69    3780871.00       0.00105                     468013.66    3780824.46       0.00124
       467952.06    3780911.06       0.00069                     468026.73    3780817.78       0.00122
       468065.03    3780766.21       0.00081                     468226.07    3780694.90       0.00031
       467792.02    3781224.68       0.00019

 *** AERMOD - VERSION 22112  ***   *** C:\Lakes\AERMOD View\19667 Muscoy Warehouse OY\19667 Muscoy Warehous ***        11/16/23
 *** AERMET - VERSION  16216 ***   *** DPM Conc OY                                                          ***        17:50:03
                                                                                                                      PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***


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

                                                                                                                 NETWORK
GROUP ID                        AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.00191 AT (  468124.29,  3780931.01,   457.00,  1875.00,    0.00)  GC  UCART1
           2ND HIGHEST VALUE IS       0.00160 AT (  468049.29,  3780931.01,   456.80,  1875.00,    0.00)  GC  UCART1
           3RD HIGHEST VALUE IS       0.00159 AT (  468124.29,  3780856.01,   455.20,  1875.00,    0.00)  GC  UCART1
           4TH HIGHEST VALUE IS       0.00126 AT (  468049.29,  3780856.01,   455.00,  1875.00,    0.00)  GC  UCART1
           5TH HIGHEST VALUE IS       0.00124 AT (  468013.66,  3780824.46,   454.55,  1875.03,    0.00)  DC
           6TH HIGHEST VALUE IS       0.00122 AT (  468026.73,  3780817.78,   454.29,  1875.03,    0.00)  DC
           7TH HIGHEST VALUE IS       0.00117 AT (  468199.29,  3780931.01,   456.20,  1875.00,    0.00)  GC  UCART1
           8TH HIGHEST VALUE IS       0.00115 AT (  468002.53,  3780843.47,   455.04,  1875.03,    0.00)  DC
           9TH HIGHEST VALUE IS       0.00114 AT (  467994.34,  3780857.02,   455.45,  1875.03,    0.00)  DC
          10TH HIGHEST VALUE IS       0.00105 AT (  467977.69,  3780871.00,   455.91,  1875.03,    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   11 Warning Message(s)
A Total of   838 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   40 Calm Hours Identified

A Total of   798 Missing Hours Identified (1.82 Percent)

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

   ********   WARNING MESSAGES   ********
SO W320   332   PPARM: Input Parameter May Be Out-of-Range for Parameter   VS
SO W320   333   PPARM: Input Parameter May Be Out-of-Range for Parameter   VS
SO W320   334   PPARM: Input Parameter May Be Out-of-Range for Parameter   VS
SO W320   335   PPARM: Input Parameter May Be Out-of-Range for Parameter   VS
ME W186   744   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
ME W187   744   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W438   8800   METQA: Convective Velocity Data Out-of-Range. KURDAT =   12010216
MX W438   11536   METQA: Convective Velocity Data Out-of-Range. KURDAT =   12042516
MX W420   16779   METQA: Wind Speed Out-of-Range.   KURDAT =   12113003
MX W450   26305   CHKDAT: Record Out of Sequence in Meteorological File at: 15010101
MX W450   26305   CHKDAT: Record Out of Sequence in Meteorological File at: 1 year gap

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

EMFAC2021 for San Bernardino (SC) PM2.5 Running and Idling Exhaust

Area	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	2025 (gms/mile)	2026 (gms/mile)	2027 (gms/mile)	2028 (gms/mile)	2029 (gms/mile)	2030 (gms/mile)	2031 (gms/mile)	2032 (gms/mile)	2033 (gms/mile)	2034 (gms/mile)	2035 (gms/mile)	2036 (gms/mile)
San Bernardino (SC)	*Annual*	*LHDT2*	*DSL*	Aggregated	*0*	0.777509	0.777544	0.777539	0.77765	0.777228	0.776552	0.772631	0.770784	0.768303	0.765381	0.761339	0.76085
San Bernardino (SC)	Annual	LHDT2	DSL	Aggregated	5	0.060612	0.056486	0.053235	0.050727	0.048784	0.047295	0.046041	0.04507	0.044345	0.043925	0.043383	0.043392
San Bernardino (SC)	Annual	LHDT2	DSL	Aggregated	10	0.050289	0.04702	0.044449	0.042473	0.040952	0.039803	0.03887	0.03818	0.037707	0.037493	0.037198	0.037256
San Bernardino (SC)	Annual	LHDT2	DSL	Aggregated	35	0.020552	0.019459	0.018621	0.017998	0.017541	0.017219	0.016983	0.016838	0.016776	0.01681	0.016819	0.016923
San Bernardino (SC)	*Annual*	*MHDT*	*DSL*	Aggregated	*0*	0.060303	0.049764	0.041162	0.034359	0.028849	0.024397	0.020752	0.018038	0.015804	0.014045	0.012547	0.011458
San Bernardino (SC)	Annual	MHDT	DSL	Aggregated	5	0.039388	0.032878	0.027462	0.023065	0.019496	0.016589	0.014187	0.012242	0.010647	0.009378	0.008311	0.007445
San Bernardino (SC)	Annual	MHDT	DSL	Aggregated	10	0.032074	0.026749	0.022318	0.018721	0.015799	0.013418	0.011449	0.009852	0.008541	0.007498	0.006618	0.005911
San Bernardino (SC)	Annual	MHDT	DSL	Aggregated	35	0.007687	0.006597	0.005684	0.004945	0.004336	0.003836	0.003412	0.003062	0.002766	0.002529	0.002319	0.002176
San Bernardino (SC)	*Annual*	*HHDT*	*DSL*	Aggregated	*0*	0.014634	0.013923	0.013343	0.012838	0.012276	0.011792	0.011375	0.011065	0.010815	0.010558	0.010383	0.010261
San Bernardino (SC)	Annual	HHDT	DSL	Aggregated	5	0.013927	0.013603	0.013294	0.013002	0.012669	0.012344	0.012015	0.011674	0.011385	0.011096	0.010891	0.010738
San Bernardino (SC)	Annual	HHDT	DSL	Aggregated	10	0.011786	0.011464	0.01116	0.010875	0.010558	0.01025	0.009941	0.009624	0.009354	0.009087	0.008898	0.008758
San Bernardino (SC)	Annual	HHDT	DSL	Aggregated	35	0.007966	0.00773	0.007515	0.00732	0.007119	0.006927	0.006736	0.006543	0.006372	0.006207	0.006082	0.005994

	2025 5 mph	2025 10 mph	2025 35 mph	2025 0 mph (idling)
LHDT2	0.08144	0.05029	0.02055	0.77751
MHDT	0.06814	0.03207	0.00769	0.06030
HHDT	0.02111	0.01179	0.00797	0.01463

2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
0.760267	0.759676	0.760052	0.760312	0.76051	0.760671	0.760734	0.760987	0.761186	0.761437	0.761606	0.761852	0.762113	0.762615	0.762615	0.762615	0.762615	0.762615	0.762615
0.043222	0.042986	0.042652	0.04245	0.042365	0.042288	0.042276	0.042073	0.041864	0.041578	0.041324	0.040992	0.040285	0.039094	0.039094	0.039094	0.039094	0.039094	0.039094
0.037157	0.036992	0.03675	0.03661	0.036571	0.036535	0.036541	0.036416	0.036276	0.036077	0.035892	0.035652	0.035053	0.034045	0.034045	0.034045	0.034045	0.034045	0.034045
0.016956	0.016952	0.016912	0.016899	0.016917	0.016928	0.016946	0.016919	0.01688	0.016818	0.016754	0.016672	0.016443	0.016063	0.016063	0.016063	0.016063	0.016063	0.016063
0.010595	0.009878	0.009315	0.008763	0.008359	0.007956	0.00768	0.007413	0.007299	0.00721	0.00714	0.007086	0.007051	0.00702	0.00702	0.00702	0.00702	0.00702	0.00702
0.006754	0.006178	0.005742	0.00532	0.005004	0.004692	0.004432	0.004179	0.004103	0.004044	0.003994	0.003966	0.003944	0.003924	0.003924	0.003924	0.003924	0.003924	0.003924
0.005347	0.004876	0.004519	0.004174	0.003915	0.003659	0.003445	0.003237	0.003173	0.003122	0.00308	0.003054	0.003034	0.003016	0.003016	0.003016	0.003016	0.003016	0.003016
0.002058	0.001957	0.001876	0.001799	0.001735	0.001671	0.001614	0.001561	0.001533	0.001508	0.001485	0.001465	0.001449	0.001434	0.001434	0.001434	0.001434	0.001434	0.001434
0.010171	0.010094	0.010026	0.009959	0.009899	0.009857	0.009823	0.009786	0.009754	0.009726	0.009704	0.009687	0.009675	0.009662	0.009662	0.009662	0.009662	0.009662	0.009662
0.011114	0.010545	0.010469	0.010394	0.010324	0.010266	0.01021	0.010152	0.010107	0.010069	0.010038	0.010032	0.010032	0.010031	0.010031	0.010031	0.010031	0.010031	0.010031
0.008661	0.008579	0.00851	0.008443	0.008382	0.00833	0.008282	0.008233	0.008194	0.008161	0.008134	0.008126	0.008124	0.008121	0.008121	0.008121	0.008121	0.008121	0.008121
0.005922	0.005861	0.005811	0.005769	0.005734	0.005705	0.005682	0.005662	0.005647	0.005635	0.005625	0.005616	0.00561	0.005603	0.005603	0.005603	0.005603	0.005603	0.005603

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