190TH STREET WAREHOUSE PROJECT AIR QUALITY, GLOBAL CLIMATE CHANGE, HEALTH RISK ASSESSMENT, AND ENERGY IMPACT ANALYSIS

City of Torrance

September 7, 2022

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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 air quality and global climate change impact analysis is to provide an assessment of the impacts resulting from development of the proposed 190th Street Warehouse project and to identify measures that may be necessary to reduce potentially significant impacts.

CONSTRUCTION-SOURCE EMISSIONS

Project construction-source emissions would not exceed applicable regional thresholds of significance established by the South Coast Air Quality Management District (SCAQMD). For localized emissions, the project will not exceed applicable Localized Significance Thresholds (LSTs) established by the SCAQMD.

Project construction-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). As discussed herein, the project will comply with all applicable SCAQMD construction-source emission reduction rules and guidelines. Project construction source emissions would not cause or substantively contribute to violation of the California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS).

Established requirements addressing construction equipment operations, and construction material use, storage, and disposal requirements act to minimize odor impacts that may result from construction activities. Moreover, construction-source odor emissions would be temporary, short-term, and intermittent in nature and would not result in persistent impacts that would affect substantial numbers of people. Potential construction-source odor impacts are therefore considered less than significant.

OPERATIONAL-SOURCE EMISSIONS

Project operational-sourced emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. Project operational-source emissions would not result in or cause a significant localized air quality impact as discussed in the Operations-Related Local Air Quality Impacts section of this report. Additionally, project-related trips will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO "hotspots). Project operational-source emissions would therefore not adversely affect sensitive receptors within the vicinity of the project.

Project operational-source emissions would not conflict with the Basin Air Quality Management Plan (AQMP). The project's emissions meet SCAQMD regional thresholds and will not result in a significant cumulative impact. The project does not propose any such uses or activities that would result in potentially significant operational-source odor impacts. Potential operational-source odor impacts are therefore considered less than significant.

GREENHOUSE GASES

Project-related GHG emissions do not exceed the SCAQMD draft screening threshold of 3,000 MTCO2e per year for all land uses, and GHG emissions are considered to be less than significant.

Furthermore, as the project's GHG emissions would not exceed the SCAQMD draft screening threshold (based on EO S-3-05). The project would not conflict with the goals of AB-32, SB-32, or the with the City of Torrance Climate Action Plan; therefore, the project would not conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases and impacts are considered to be less than significant.

ENERGY

For new development such as that proposed by 190th Street Warehouse project, compliance with California Building Standards Code Title 24 energy efficiency requirements (CALGreen), are considered demonstrable evidence of efficient use of energy. As discussed below, the project would provide for, and promote, energy efficiencies required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the project's operation is calculated to be comparable to, or less than, energy consumed by other industrial uses of similar scale and intensity that are constructed and operating in California. On this basis, the project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Impacts are considered to be less than significant.

1. INTRODUCTION

This section describes the purpose of this air quality, global climate change, health risk assessment, and energy impact analysis, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

PURPOSE AND OBJECTIVES

This study was performed to address the possibility of regional/local air quality impacts and global climate change impacts, from project related air emissions. The objectives of the study include:

- documentation of the atmospheric setting
- discussion of criteria pollutants and greenhouse gases
- discussion of the air quality and global climate change regulatory framework
- discussion of the air quality, greenhouse gases, and cancer risk thresholds of significance
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations-related air quality and greenhouse gas emissions
- analysis of the operations-related cancer risk from diesel emissions
- analysis of the conformity of the proposed project with the SCAQMD AQMP
- analysis of the project's energy use during construction and operation
- recommendations for mitigation measures

The City of Torrance is the lead agency for this air quality and greenhouse gas analysis, 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 and global climate change, a definition of terms has been provided in Appendix A.

PROJECT LOCATION

The proposed project is located at the northeast corner of Crenshaw Place and 190th Street at 2555 West 190th Street in the City of Torrance. The project site is currently developed with an existing 160,000 square foot office building that is currently vacant and has not been actively marketed pending the redevelopment of the subject property as proposed by the project, in addition to excess surface parking areas. A vicinity map showing the project location is provided on Figure 1.

According to the SCAQMD's MATES-V study, the project area has an estimated multi-pathway cancer risk of 585 in one million and an inhalation cancer risk of 522 in one million. In comparison, the Basin and Port Area Population-Weighted Cancer Risk (Inhalation Only) for Los Angeles County is 424 in one million. This cancer risk at the project site is largely due to the proximity to the Interstate 405 Freeway.

PROJECT DESCRIPTION

The proposed project includes development of a state-of-the-art industrial warehouse/manufacturing facility that could range between 270,600 square feet to 284,130 square feet. Two Project Options are proposed:

- Option A: includes 284,130 square feet of floor area consisting of 85,239 square feet of warehouse, 170,478 square feet of manufacturing, and 28,413 square feet of office, inclusive of 13,530 square feet of mezzanine space. Parking for the project, calculated at 1 space per 1,500 square feet for warehouse/storage space, 1 space per 400 square feet of manufacturing, and 1 space per 250 square feet of office space per Section 93.2.33 of the City's Municipal Code, will be provided via 600 on-site parking spaces.

- Option B: includes 270,600 square feet of floor area consisting of 257,070 square feet of warehouse, and 13,530 square feet of office space. Parking for this project option, calculated at 1 space per 1,500 square feet for warehouse/storage space, and 1 space per 250 square feet of office space per Section 93.2.33 of the City's Municipal Code, will be provided via 377 on-site parking spaces.

Vehicular access will be maintained at the two (2) existing unsignalized full access driveways on 190th Street (referred to as Project Driveways 2 and 3), and the signalized intersection of 190th Street at Honeywell (referred to as Project Driveway 1), as well as the existing unsignalized full access driveway on Crenshaw Place (referred to as Project Driveway 5).

It is anticipated that, whether one tenant or two tenants occupies the project, access to the "gated/secured" truck loading areas would require trucks to enter the site via the proposed northerly driveway on Crenshaw Place (Project Driveway 4). All large semi-trucks (tractor–trailer) will be prohibited from entering the site via the existing signalized site driveway along W. 190th Street (Project Driveway 1), but with concurrence by the City, it is expected truck traffic would be allowed to exit. Site access for passenger-vehicles would be allowed at all project driveways. It is expected that only single-unit/box trucks (SU-40 or smaller) no longer than 40-feet in length would be allowed to enter via the existing signalized site driveway (Project Driveway 1) along W. 190th Street.

The Revised Traffic Impact Analysis 2555 W. 190th Street Warehouse/Manufacturing Project (TIA) prepared for the proposed project (July 27, 2022) evaluated the project under Option A as it has a higher number of project generated vehicle trips. To be consistent with the TIA, and as it would provide for a more conservative analysis, this analysis also evaluates the project under Option A. Figure 2 illustrates the proposed site plan.

PHASING AND TIMING

The proposed project is anticipated to be operational in 2024. The project is anticipated to be built in one phase. Demolition of the existing building is anticipated to start no sooner than August 2022 and be completed by October 2022, while building construction is anticipated to begin no sooner than June 2023 and being completed by June 2024. The construction schedule utilized in the analysis represents a "worst-case" analysis scenario even if construction was to occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[1]

SENSITIVE RECEPTORS IN PROJECT VICINITY

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. For purposes of CEQA, the SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities (South Coast Air Quality Management District 2008). Commercial and industrial facilities are not included in the definition because employees do not typically remain on-site for 24 hours.

The nearest sensitive receptors to the project site include the single-family detached residential dwelling units located on the opposite side of Crenshaw Boulevard, as close as approximately 215 feet west of the project site, and 0.31 miles east of the project site. Other air quality sensitive land uses are located further from the project site and would experience lower impacts.

[1] As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2020.4.0, Section 4.3.2 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

Figure 1
Project Location Map

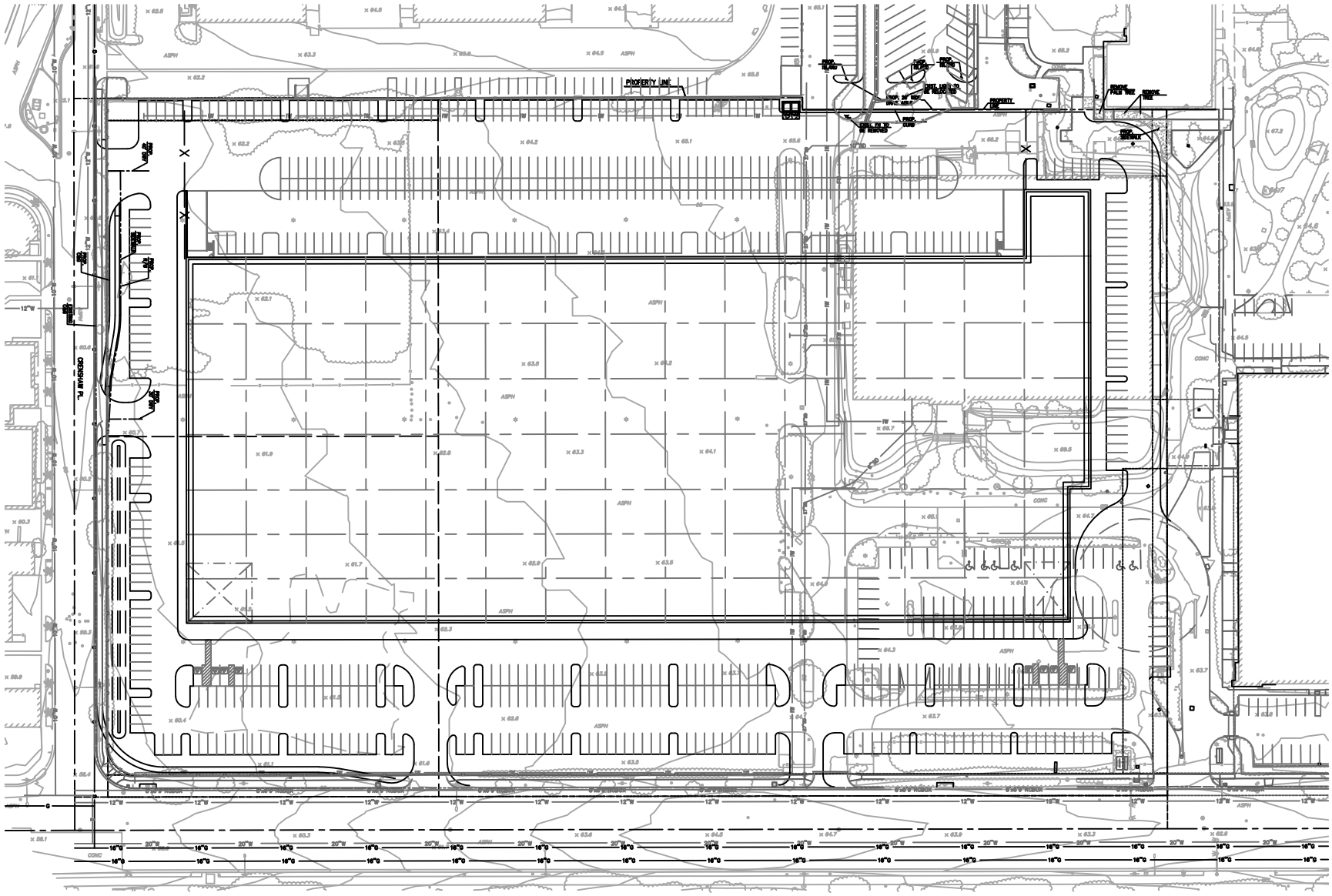


Figure 2
Site Plan

2. AIR QUALITY ANALYSIS

EXISTING AIR QUALITY CONDITIONS

Local Air Quality

The project site is located within the City of Torrance, in the southern portion of Los Angeles County, 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.

Dominant airflows provide the driving mechanism for transport and dispersion of air pollution. The mountains surrounding the region form natural horizontal barriers to the dispersion of air contaminants. Air pollution created in the coastal areas and around the Los Angeles area is transported inland until it reaches the mountains where the combination of mountains and inversion layers generally prevent further dispersion. This poor ventilation results in a gradual degradation of air quality from the coastal areas to inland areas. Air stagnation may occur during the early evening and early morning periods of transition between day and nighttime flows. The region also experiences periods of hot, dry winds from the desert, known as Santa Ana winds. If the Santa Ana winds are strong, they can surpass the sea breeze, which blows from the ocean to the land, and carry the suspended dust and pollutants out to the ocean. If the winds are weak, they are opposed by the sea breeze and cause stagnation, resulting in high pollution events.

The annual average temperature varies little throughout much of the basin, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). With more pronounced oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas. The majority of the annual rainfall in the basin occurs between November and April. Summer rainfall is minimal and is generally limited to scattered thunderstorms in the coastal regions and slightly heavier showers in the eastern portion of the basin along the coastal side of the mountains. Year-to-year patterns in rainfall are unpredictable because of fluctuations in the weather.

Temperature inversions limit the vertical depth through which pollution can be mixed. Among the most common temperature inversions in the basin are radiation inversions, which form on clear winter nights when cold air off mountains sink to the valley floor while the air aloft over the valley remains warm. These inversions, in conjunction with calm winds, trap pollutants near the source. Other types of temperature inversions that affect the basin include marine, subsidence, and high-pressure inversions.

Summers are often periods of hazy visibility and occasionally unhealthful air. Strong temperature inversions may occur that limit the vertical depth through which air pollution can be dispersed. Air pollutants concentrate because they cannot rise through the inversion layer and disperse. These inversions are more common and persistent during the summer months. Over time, sunlight produces photochemical reactions within this inversion layer that creates ozone, a particularly harmful air pollutant. Occasionally, strong thermal convections occur which allows the air pollutants to rise high enough to pass over the mountains and ultimately dilute the smog cloud. The temperature and precipitation levels for the City of Torrance, are shown below in Table 1.

Table 1
Local Monthly Climate Data

Descriptor	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Max. Temperature	66.5	66.8	68.1	70.6	72.3	74.6	77.8	78.8	78.1	75.4	68.4	66.8
Avg. Min. Temperature	46.2	47.7	49.4	51.5	55.1	58	61.3	61.9	60.5	56.5	48.9	46.3
Avg. Total Precipitation (in.)	3.19	3.68	2.33	0.82	0.26	0.07	0.05	0.03	0.16	0.62	1.16	2.29

Source: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca8973
Data from the Torrance, CA station (048973).

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.

Criteria Pollutants

The criteria pollutants consist of: ozone, nitrogen dioxide, carbon monoxide, sulfur dioxide, lead, and particulate matter. These pollutants can harm your health and the environment, and cause property damage. The Environmental Protection Agency (EPA) calls these pollutants "criteria" air pollutants because it regulates them by developing human health-based and/or environmentally-based criteria for setting permissible levels. The following provides descriptions of each of the criteria pollutants.

Nitrogen Dioxides

Nitrogen Oxides (NOx) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NOx are colorless and odorless, concentrations of nitrogen dioxide (NO_2) can often be seen as a reddish-brown layer over many urban areas. NOx form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NOx are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NOx reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO_2, which cause respiratory problems. NOx and the pollutants formed from NOx can be transported over long distances, following the patterns of prevailing winds. Therefore, controlling NOx is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

Ozone

Ozone (O_3) is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NOx and volatile organic compounds (VOC) in the presence of sunlight. Motor vehicle exhaust, industrial emissions, gasoline vapors, chemical solvents as well as natural sources emit NOx and VOC that help form ozone. Ground-level ozone is the primary constituent of smog. Sunlight and hot weather cause ground-level ozone to form with the greatest concentrations usually occurring downwind from urban areas. Ozone is subsequently considered a regional pollutant. Ground-level ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NOx and VOC are ozone precursors, the health effects associated with ozone are also indirect health effects associated with significant levels of NOx and VOC emissions.

Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. It is a component of motor vehicle exhaust, which contributes about 56 percent of all CO emissions nationwide. In cities, 85 to 95 percent of all CO emissions may come from motor vehicle exhaust. Other sources of CO emissions include industrial processes (such as metals processing and chemical manufacturing), residential wood burning, and natural sources such as forest fires. Woodstoves, gas stoves, cigarette smoke, and unvented gas and kerosene space heaters are indoor sources of CO. The highest levels of CO in the outside air typically occur during the colder months of the year when inversion conditions are more frequent. The air pollution becomes trapped near the ground beneath a layer of warm air. CO is described as having only a local influence because it dissipates quickly. Since CO concentrations are strongly associated with motor vehicle emissions, high CO concentrations generally occur in the immediate vicinity of roadways with high

traffic volumes and traffic congestion, active parking lots, and in automobile tunnels. Areas adjacent to heavily traveled and congested intersections are particularly susceptible to high CO concentrations.

CO is a public health concern because it combines readily with hemoglobin and thus reduces the amount of oxygen transported in the bloodstream. The health threat from lower levels of CO is most serious for those who suffer from heart disease such as angina, clogged arteries, or congestive heart failure. For a person with heart disease, a single exposure to CO at low levels may cause chest pain and reduce that person's ability to exercise; repeated exposures may contribute to other cardiovascular effects. High levels of CO can affect even healthy people. People who breathe high levels of CO can develop vision problems, reduced ability to work or learn, reduced manual dexterity, and difficulty performing complex tasks. At extremely high levels, CO is poisonous and can cause death.

Sulfur Dioxide

Sulfur Oxide (SOx) gases (including sulfur dioxide [SO2]) are formed when fuel containing sulfur, such as coal and oil is burned, and from the refining of gasoline. SOx dissolves easily in water vapor to form acid and interacts with other gases and particles in the air to form sulfates and other products that can be harmful to people and the environment.

Lead

Lead (Pb) is a metal found naturally in the environment as well as manufactured products. The major sources of lead emissions have historically been motor vehicles and industrial sources. Due to the phase out of leaded gasoline, metal processing is now the primary source of lead emissions to the air. High levels of lead in the air are typically only found near lead smelters, waste incinerators, utilities, and lead-acid battery manufacturers. Exposure of fetuses, infants and children to low levels of lead can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased lead levels are associated with increased blood pressure.

Particulate Matter

Particulate matter (PM) is the term for a mixture of solid particles and liquid droplets found in the air. Particulate matter is made up of a number of components including acids (such as nitrates and sulfates), organic chemicals, metals, and soil or dust particles. The size of particles is directly linked to their potential for causing health problems. Particles that are less than 10 micrometers in diameter (PM10) are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, these particles can affect the heart and lungs and cause serious health effects. Particles that are less than 2.5 micrometers in diameter (PM2.5) have been designated as a subset of PM10 due to their increased negative health impacts and its ability to remain suspended in the air longer and travel further.

Reactive Organic Gases (ROG)

Although not a criteria pollutant, reactive organic gases (ROGs), or volatile organic compounds (VOCs), are defined as any compound of carbon—excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROGs and VOCs, the two terms are often used interchangeably. Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM10 and lower visibility.

Other Pollutants of Concern

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.

Asbestos

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant by the 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 Los Angeles 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 at Asbestos Mountain, in the San Jacinto Valley, approximately 108 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

The United States Environmental Protection Agency (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 and are shown below in Table 2.

The EPA and the California Air Resource Board (CARB) designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified." National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 3.

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).

As indicated below in Table 3, the Basin has been designated by the EPA as a non-attainment area for ozone (O_3) and suspended particulates (PM10 and PM2.5). Currently, the Basin is in attainment with the ambient air quality standards for carbon monoxide (CO), lead, sulfur dioxide (SO_2), suspended particulate matter (PM-2.5), and nitrogen dioxide (NO_2).

State – California Air Resources Board

The California Air Resources Board (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). The California Ambient Air Quality Standards (CAAQS) for criteria pollutants are shown in Table 2. 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. Furthermore, the motor vehicle emission standards established by CARB include compliance with the Safer Affordable Fuel Efficient Vehicles (SAFE) Rule, issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020). The SAFE Rule sets fuel economy and carbon dioxide standards that increase 1.5 percent in stringency each year from model years 2021 through 2026, and apply to both passenger cars and light trucks. CARB. It also sets fuel specifications to further reduce vehicular emissions. The SAFE Rule was repealed on December 21, 2021.

The South Coast Air Basin has been designated by the CARB as a nonattainment area for ozone, PM10 and PM2.5. Currently, the South Coast Air Basin is in attainment with the ambient air quality standards for CO, lead, SO2, NO2, and sulfates and is unclassified for visibility reducing particles and Hydrogen Sulfide.

On June 20, 2002, the CARB revised the PM10 annual average standard to 20 µg/m3 and established an annual average standard for PM2.5 of 12 µg/m3. These standards were approved by the Office of Administrative Law in June 2003 and are now effective. On September 27, 2007 CARB approved the South Coast Air Basin and the Coachella Valley 2007 Air Quality Management Plan for Attaining the Federal 8-hour Ozone and PM2.5 Standards. The plan projected attainment for the 8-hour Ozone standard by 2024 and the PM2.5 standard by 2015.

On December 12, 2008 the CARB adopted Resolution 08-43, which limits NOx, PM10 and PM2.5 emissions from on-road diesel truck fleets that operate in California. On October 12, 2009 Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, Title 13 of the California Code of Regulations. This regulation requires that by the year 2023 all commercial diesel trucks that operate in California shall meet model year 2010 (Tier 4) or latter emission standards. In the interim period, this regulation provides annual interim targets for fleet owners to meet. This regulation also provides a few exemptions including a onetime per year 3-day pass for trucks registered outside of California.

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 South Coast 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 authorizes 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 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.

South Coast Air Quality Management District

The SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emission sources, and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary, mobile, and indirect sources. It has responded to this requirement by preparing a sequence of AQMPs. On June 30, 2016, the

SCAQMD released its Draft 2016 AQMP. The 2016 AQMP is a regional blueprint for achieving the federal air quality standards and healthful air.

Air Quality Management Plan

The 2016 AQMP includes both stationary and mobile source strategies to ensure that rapidly approaching attainment deadlines are met, that public health is protected to the maximum extent feasible, and that the region is not faced with burdensome sanctions if the Plan is not approved or if the NAAQS are not met on time. As with every AQMP, a comprehensive analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures is updated with the latest data and methods. The most significant air quality challenge in the Basin is to reduce nitrogen oxide (NOx) emissions sufficiently to meet the upcoming ozone standard deadlines. On March 23, 2017 the CARB approved the 2016 AQMP. The primary goal of this Air Quality Management Plan is to meet clean air standards and protect public health, including ensuring benefits to environmental justice and disadvantaged communities. Now that the Plan has been approved by the CARB, it has been forwarded to the U.S. EPA for its review. The Plan was approved by the EPA on June 15, 2017.

In May 2022, the SCAQMD completed the 2022 Draft AQMP. The 2022 Draft AQMP is focused on attaining the 2015 8-hour ozone standard (70 ppb) for the South Coast Air Basin and Coachella Valley. The Draft 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emission technologies, when cost-effective and feasible, and low NOx technologies in other applications), best management practices, co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other CAA measures to achieve the 2015 8-hour ozone standard. The public comment period on the 2022 Draft AQMP closed as of the end of July 2022.

SCAQMD Rules and Regulations

During construction and operation, the project must comply with applicable rules and regulations. The following are rules that the project may be required to comply with, either directly, or indirectly:

SCAQMD Rule 402

Prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

SCAQMD Rule 403

Governs emissions of fugitive dust during construction and operation activities. Compliance with this rule is achieved through application of standard Best Management Practices, such as application of water or chemical stabilizers to disturbed soils, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 miles per hour, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph, and establishing a permanent ground cover on finished sites.

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM_{10} component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Rule 403 measures may include but are not limited to the following:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least three times daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.
- Suspension of all grading activities when wind speeds (including instantaneous wind gusts) exceed 25 mph.
- Bumper strips or similar best management practices shall be provided where vehicles enter and exit the construction site onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Replanting disturbed areas as soon as practical.
- During all construction activities, construction contractors shall sweep on-site and off-site streets if silt is carried to adjacent public thoroughfares, to reduce the amount of particulate matter on public streets. All sweepers shall be compliant with SCAQMD Rule 1186.1, Less Polluting Sweepers.

SCAQMD Rule 445

Prohibits permanently installed wood burning devices into any new development. A wood burning device means any fireplace, wood burning heater, or pellet-fueled wood heater, or any similarly enclosed, permanently installed, indoor or outdoor device burning any solid fuel for aesthetic or space-heating purposes, which has a heat input of less than one million British thermal units per hour.

SCAQMD Rule 481

Applies to all spray painting and spray coating operations and equipment. The rule states that a person shall not use or operate any spray painting or spray coating equipment unless one of the following conditions is met:

(1) The spray coating equipment is operated inside a control enclosure, which is approved by the Executive Officer. Any control enclosure for which an application for permit for new construction, alteration, or change of ownership or location is submitted after the date of adoption of this rule shall be exhausted only through filters at a design face velocity not less than 100 feet per minute nor greater than 300 feet per minute, or through a water wash system designed to be equally effective for the purpose of air pollution control.
(2) Coatings are applied with high-volume low-pressure, electrostatic and/or airless spray equipment.
(3) An alternative method of coating application or control is used which has effectiveness equal to or greater than the equipment specified in the rule.

SCAQMD Rule 1108

Governs the sale, use, and manufacturing of asphalt and limits the volatile organic compound (VOC) content in asphalt used in the South Coast Air Basin. This rule would regulate the VOC content of asphalt used during construction. Therefore, all asphalt used during construction of the project must comply with SCAQMD Rule 1108.

SCAQMD Rule 1113

Governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction. Therefore, all paints and solvents used during construction and operation of the project must comply with SCAQMD Rule 1113.

SCAQMD Rule 1143

Governs the manufacture, sale, and use of paint thinners and solvents used in thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations by limiting their VOC content. This rule regulates the VOC content of solvents used during construction. Solvents used during the construction phase must comply with this rule.

SCAQMD Rule 1186

Limits the presence of fugitive dust on paved and unpaved roads and sets certification protocols and requirements for street sweepers that are under contract to provide sweeping services to any federal, state, county, agency or special district such as water, air, sanitation, transit, or school district.

SCAQMD Rule 1303

Governs the permitting of re-located or new major emission sources, requiring Best Available Control Measures and setting significance limits for PM_{10} among other pollutants.

SCAQMD Rule 1401

New Source Review of Toxic Air Contaminants, specifies limits for maximum individual cancer risk, cancer burden, and non-cancer acute and chronic hazard index from new permit units, relocations, or modifications to existing permit units, which emit toxic air contaminants.

SCAQMD Rule 1403

Asbestos Emissions from Demolition/Renovation Activities, specifies work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of asbestos-containing materials (ACM).

SCAQMD Rule 2202

On-Road Motor Vehicle Mitigation Options, is to provide employers with a menu of options to reduce mobile source emissions generated from employee commutes, to comply with federal and state Clean Air Act requirements, Health & Safety Code Section 40458, and Section 182(d)(1)(B) of the federal Clean Air Act. It applies to any employer who employs 250 or more employees on a full or part-time basis at a worksite for a consecutive six-month period calculated as a monthly average.

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.

Air Quality Guidance Documents

SCAQMD CEQA Handbook

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate air quality issues associated with plans and new development projects throughout the South Coast Air Basin. Instead, this is controlled through local jurisdictions in accordance with the California Environmental Quality Act (CEQA). In order to assist local jurisdictions with air quality compliance issues the CEQA Air Quality Handbook (SCAQMD CEQA Handbook) prepared by the SCAQMD (1993) with the most current updates found at http://www.aqmd.gov/ceqa/hdbk.html, was developed in accordance with the projections and programs of the AQMP. The purpose of the SCAQMD CEQA Handbook is to assist Lead Agencies, as well as consultants, project proponents, and other interested parties in evaluating a proposed project's potential air quality impacts. Specifically, the SCAQMD CEQA Handbook explains the procedures that the SCAQMD recommends be followed for the environmental review process required by CEQA. The SCAQMD CEQA Handbook provides direction on how to evaluate potential air quality impacts, how to determine whether these impacts are significant, and how to mitigate these impacts. SCAQMD is in the process of developing an "Air Quality Analysis Guidance Handbook" to replace the CEQA Air Quality Handbook approved by the AQMD Governing Board in 1993. The 1993 CEQA Air Quality Handbook is still available but not online. In addition, there are sections of the 1993 Handbook that are obsolete. In order to assist the CEQA practitioner in conducting an air quality analysis while the new Handbook is being prepared, supplemental information regarding: significance thresholds and analysis, emissions factors, cumulative impacts emissions analysis, and other useful subjects, are available at the SCAQMD website.[2] The SCAQMD CEQA Handbook and supplemental information is used in this analysis.

Southern California Association of Governments

The SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial Counties and addresses regional issues relating to transportation, the economy, community development and the environment. SCAG is the Federally designated MPO for the majority of the southern California region and is the largest MPO in the nation. With respect to air quality planning, SCAG has prepared the Regional Transportation Plan and Regional Transportation Improvement Plan (RTIP), which addresses regional development and growth forecasts. These plans form the basis for the land use and transportation components of the AQMP, which are utilized in the preparation of air quality forecasts and in the consistency analysis included in the AQMP. The Regional Transportation Plan, Regional Transportation Improvement Plan, and AQMP are based on projections originating within the City and County General Plans.

On April 7, 2016, SCAG's Regional Council adopted the 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS or Plan). The Plan is a long-range visioning plan that balances future mobility and housing needs with economic, environmental and public health goals. The Plan charts a course for closely integrating land use and transportation – so that the region can grow smartly and sustainably. It outlines more than $556.5 billion in transportation system investments through 2040. The Plan was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura. In June 2016, SCAG received its conformity determination from the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 FTIP Consistency Amendment through Amendment 15-12 have been met.

On April 7, 2016, SCAG's Regional Council adopted the 2016-2040 Regional Transportation Plan/ Sustainable Communities Strategy (2016 RTP/SCS or Plan). The Plan is a long-range visioning plan that balances future mobility and housing needs with economic, environmental and public health goals. The Plan charts a course

[2] http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook.

for closely integrating land use and transportation – so that the region can grow smartly and sustainably. It outlines more than $556.5 billion in transportation system investments through 2040. The Plan was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura. In June 2016, SCAG received its conformity determination from the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) indicating that all air quality conformity requirements for the 2016 RTP/SCS and associated 2015 FTIP Consistency Amendment through Amendment 15-12 have been met.

On May 7, 2020, SCAG's Regional Council adopted Connect SoCal (2020-2045 Regional Transportation Plan/Sustainable Communities Strategy) for federal transportation conformity purposes only. In light of the COVID-19 pandemic, the Regional Council will consider approval of Connect SoCal in its entirety and for all other purposes within 120 days from May 7, 2020. Connect SoCal is a long-range visioning plan that builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. Connect SoCal outlines more than $638 billion in transportation system investments through 2045. It was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura.

Local – City of Torrance

Local jurisdictions, such as the City of Torrance, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the City is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The City is also responsible for the implementation of transportation control measures as outlined in the 2016 AQMP. Examples of such measures include bus turnouts, energy-efficient streetlights, and synchronized traffic signals. In accordance with CEQA requirements and the CEQA review process, the City assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

The City relies on the expertise of the SCAQMD and utilizes the SCAQMD CEQA Air Quality Handbook as the guidance document for the environmental review of plans and development proposals within its jurisdiction.

The Community Resources Element of the City of Torrance General Plan contains the following air quality-related objectives and policies that are applicable to the proposed project:

Objective CR.13 To contribute to the improvement of local and regional ambient air quality to benefit the health of all.

Policies

CR.13.1 Continue to participate in the efforts of the State Air Resources Board and the South Coast Air Quality Management District to meet State and federal air quality standards.

CR.13.2 Work with neighboring cities to implement local and regional projects that improve mobility on freeways and railways, reduce emissions, and improve air quality.

CR.13.3 Support regional air quality goals through conscientious land use and transportation planning and the implementation of resource conservation measures.

CR13.4 Balance the achievement of clean air with other major goals of the City.

CR.13.5 Support air quality and energy and resource conservation by encouraging alternative modes of transportation such as walking, bicycling, transit, and carpooling.

CR.13.6 Promote citizen awareness and participation in programs to reduce air pollution and traffic congestion.

CR.13.7 Encourage the use of alternative fuel vehicles and re-refined oil.

CR13.8 Promote energy-efficient building construction and operation practices that reduce emissions and improve air quality.

Objective CR.14 To reduce the City's overall carbon footprint and counteract the effects of global warming through a reduction in the emissions of greenhouse gases within Torrance.

CR14.1 Support the California Air Resources Board in its ongoing plans to implement AB32, and fully follow any new AB32-related regulations.

CR.14.2 Develop and implement greenhouse gas emissions reduction measures, including discrete, early-action greenhouse gas reducing measures that are technologically feasible and cost-effective.

CR.14.3 Pursue actions recommended in the U.S. Mayors Climate Protection Agreement to meet AB32 requirements.

CR.14.4 Act as a leader and example in sustainability and reduction in greenhouse gas emissions by conducting City business in the most greenhouse gas-sensitive way.

Table 2
State and Federal Criteria Pollutant Standards

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O_3)	0.09 ppm/1-hour 0.07 ppm/8-hour	0.070 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO_2)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO_2)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/annual	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM_{10})	50 µg/m^3/24-hour 20 µg/m^3/annual	150 µg/m^3/24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter ($PM_{2.5}$)	12 µg/m^3 / annual	35 µg/m^3/24-hour 12 µg/m^3/annual	
Sulfates	25 µg/m^3/24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage.
Lead	1.5 µg/m^3/30-day	0.15 µg/m^3/3-month rolling	(a) Learning disabilities; (b) Impairment of blood formation and nerve conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

Source: http://www.arb.ca.gov/research/aaqs/aaqs2.pdf

Table 3
South Coast Air Basin Attainment Status

Pollutant	State Status	National Status
Ozone	Nonattainment	Nonattainment (Extreme)
Carbon monoxide	Attainment	Maintenance (Serious)
Nitrogen dioxide	Attainment	Maintenance (Primary)
Sulfur dioxide	Attainment	Attainment/Unclassified
PM10	Nonattainment	Maintenance (Serious)
PM2.5	Nonattainment	Nonattainment (Moderate)

Source: (Federal and State Status): California Air Resources Board (2020) https://ww2.arb.ca.gov/resources/documents/maps-state-and-federal-area-designations & US EPA (2020) https://www.epa.gov/green-book.

MONITORED AIR QUALITY

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the air basin. Estimates of the existing emissions in the Basin provided in the Final 2016 Air Quality Management Plan prepared by SCAQMD (March 2017) indicate that collectively, mobile sources account for 60 percent of the VOC, 90 percent of the NOx emissions, 95 percent of the CO emissions and 34 percent of directly emitted PM2.5, with another 13 percent of PM2.5 from road dust.

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as "nonattainment" areas. If standards are met, the area is designated as an "attainment" area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered "unclassified". National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards. Each standard has a different definition, or 'form' of what constitutes attainment, based on specific air quality statistics. For example, the Federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring values exceeds the threshold per year. In contrast, the Federal annual PM2.5 standard is met if the three-year average of the annual average PM2.5 concentration is less than or equal to the standard. Attainment status is shown in Table 3.

The SCAQMD has divided the South Coast Air Basin into 38 air-monitoring areas with a designated ambient air monitoring station representative of each area. The project site is located in the Southwest Coastal LA County Air Monitoring Area (Area 3), which is located in Los Angeles County and covers from the area from the Pacific Ocean on the west, the Interstate 110 Freeway on the east, Slauson Avenue on the north, and San Pedro on the south. The nearest air monitoring station to the project site is the Long Beach – 2425 Webster Street Monitoring Station (Long Beach Station). The Long Beach Station is located approximately 7.11 miles southeast of the project site at 2425 Webster Street, Long Beach. As not all monitoring stations monitor all pollutants, data was also taken from the next nearest monitoring station, Compton – 700 North Bullis Road Monitoring Station (Compton Station). The Compton Station is located approximately 7.27 miles northeast of the project site at 700 North Bullis Road, Compton. Table 4 presents the monitored pollutant levels from the Long Beach and Compton Stations. However, it should be noted that due to the air monitoring stations distances from the project site, recorded air pollution levels at the air monitoring stations reflect with varying degrees of accuracy, local air quality conditions at the project site.

Table 4 summarizes 2019 through 2021 published monitoring data, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the ozone and particulate matter (PM2.5 and PM10) standards.

Ozone

During the 2019 to 2021 monitoring period, the State 1-hour concentration standard for ozone was exceeded between one and four days each year at the Compton Station. The State 8-hour ozone standard was exceeded between one and four days each year over the past three years at the Compton Station. The Federal 8-hour ozone standard was exceeded for only one day in 2019 and three days in 2020 over the past three years at the Compton Station.

Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of chemical reactions between other pollutants, most importantly hydrocarbons and NO_2, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of the SCAQMD contribute to the ozone levels experienced at the monitoring station, with the more significant areas being those directly upwind.

Carbon Monoxide

CO is another important pollutant that is due mainly to motor vehicles. The Long Beach Station did not record an exceedance of the state or federal 8-hour CO standard for the last three years.

Nitrogen Dioxide

The Compton Station did not record an exceedance of the State or Federal NO_2 standards for the last three years.

Particulate Matter

The State 24-hour concentration standards for PM10 were exceeded for four days in 2010 and three days in 2020 over the last three years at the Long Beach Station. Over the past three years, the Federal 24-hour standards for PM10 were exceeded for only one day in 2019 at the Long Beach Station.

The Federal 24-hour standard for PM2.5 were exceeded between one and 19 days each year over the past three years at the Compton Station.

According to the EPA, some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths during exercise.

Table 4
Air Quality Monitoring Summary

Pollutant (Standard)[1]		Year		
		2019	2020	2021
Ozone:	Maximum 1-Hour Concentration (ppm)	0.100	0.152	0.085
	Days > CAAQS (0.09 ppm)	**1**	**3**	0
	Maximum 8-Hour Concentration (ppm)	0.079	0.115	0.077
	Days > NAAQS (0.070 ppm)	**1**	**4**	**1**
	Days > CAAQS (0.070 ppm)	**1**	**4**	**1**
Carbon Monoxide:[2]	Maximum 8-Hour Concentration (ppm)	*	*	*
	Days > CAAQS (9 ppm)	0	0	0
	Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide:	Maximum 1-Hour Concentration (ppm)	0.070	0.072	0.068
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10):[2]	Maximum 24-Hour Concentration (µg/m^3)	155.8	61.6	*
	Days > NAAQS (150 µg/m3)	**1**	0	0
	Days > CAAQS (50 µg/m3)	**4**	**3**	*
	Annual Average (µg/m3)	29.7	31.8	*
Ultra-Fine Particulates (PM2.5):	Maximum 24-Hour Concentration (µg/m3)	39.5	67.5	102.1
	Days > NAAQS (35 µg/m3)	**1**	**19**	**12**
	Annual Average (µg/m3)	10.8	14.6	13.4

Notes:

Source: http://www.arb.ca.gov/adam/topfour/topfour1.php. Data from the Compton - 700 North Bullis Road Monitoring Station, unless otherwise noted.

(1) CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million

* Means there was insufficient data available to determine value.

AIR QUALITY STANDARDS

Significance Thresholds

Appendix G of the State CEQA Guidelines

Appendix G of the State CEQA Guidelines states that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make a significance determination. Pursuant to Appendix G, the project would result in a significant impact related to air quality if it would:

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

The CEQA Guidelines Section 15064.7 provides the significance criteria established by the applicable air quality management district or air pollution control district, when available, may be relied upon to make determinations of significance. The potential air quality impacts of the project are, therefore, evaluated according to thresholds developed by SCAQMD in their CEQA Air Quality Handbook, Air Quality Analysis Guidance Handbook, and subsequent guidance, which are listed below.[3] Therefore, the project would result in a potentially significant impact to air quality if it would:

AIR-1: Conflict with or obstruct the implementation of the applicable air quality plan;

AIR-2: Violate any air quality standard or contribute substantially to an existing or projected air quality violation as a result of:

- Criteria pollutant emissions during construction (direct and indirect) in excess of the SCAQMD's regional significance thresholds,
- Criteria pollutant emissions during operation (direct and indirect) in excess of the SCAQMD's regional significance thresholds.

AIR-3: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);

AIR-4: Expose sensitive receptors to substantial pollutant concentrations that would:

- Exceed SCAQMD's localized significance thresholds,
- Cause or contribute to the formation of CO hotspots.

AIR-5: Create objectionable odors affecting a substantial number of people.

The SCAQMD is in the process of developing an Air Quality Analysis Guidance Handbook to replace the CEQA Air Quality Handbook. In the interim, supplemental guidance has been adopted by the SCAQMD. The

[3] While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from industrial land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

potential air quality impacts of the project are, therefore, evaluated according to numeric indicators developed by the SCAQMD in the CEQA Air Quality Handbook and supplemental guidance from the SCAQMD.[4]

Regional Air Quality

Many air quality impacts that derive from dispersed mobile sources, which are the dominate pollution generators in the basin, often occurs hours later and miles away after photochemical processes have converted primary exhaust pollutants into secondary contaminants such as ozone. The incremental regional air quality impact of an individual project is generally very small and difficult to measure. Therefore, the SCAQMD has developed significance thresholds based on the volume of pollution emitted rather than on actual ambient air quality because the direct air quality impact of a project is not quantifiable on a regional scale. The SCAQMD CEQA Handbook states that any project in the South Coast Air Basin with daily emissions that exceed any of the identified significance thresholds should be considered as having an individually and cumulatively significant air quality impact. For the purposes to this air quality impact analysis, a regional air quality impact would be considered significant if emissions exceed the SCAQMD significance thresholds identified in Table 5.

Local Air Quality

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significance Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significance Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significance Threshold Methodology found that the primary emissions of concern are NO_2, CO, PM10, and PM2.5.

The significance thresholds for the local emissions of NO_2 and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 4 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significance Thresholds. Table 5 shows the ambient air quality standards for NO_2, CO, and PM10 and PM2.5.

Toxic Air Contaminants

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 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).

[4] While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from residential land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

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. In regard to 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 an industrial project and will be a source of toxic air contaminants; therefore, an HRA was conducted (please see Section 4 of this report).

Odor Impacts

The SCAQMD CEQA Handbook states that an odor impact would occur if the proposed project creates an odor nuisance pursuant to SCAQMD Rule 402, which states:

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

If the proposed project results in a violation of Rule 402 with regards to odor impacts, then the proposed project would create a significant odor impact.

Table 5
SCAQMD Air Quality Significance Thresholds

Mass Daily Thresholds		
Pollutant	Construction (lbs/day)	Operation (lbs/day)
NOx	100	55
VOC	75	55
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3

Toxic Air Contaminants, Odor and GHG Thresholds	
TACs	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index > 1.0 (project increment)
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402
GHG	10,000 MT/yr CO2e for industrial projects

Ambient Air Quality Standards	
Pollutant	SCAQMD Standards
NO2 -1-hour average	0.18 ppm (338 µg/m^3)
PM10 -24-hour average Construction Operations	 10.4 µg/m^3 2.5 ug/m^3
PM2.5 -24-hour average Construction Operations	 10.4 µg/m^3 2.5 µg/m^3
SO2 1-hour average 24-hour average	 0.25 ppm 0.04 ppm
CO 1-hour average 8-hour average	 20 ppm (23,000 µg/m^3) 9 ppm (10,000 µg/m^3)
Lead 30-day average Rolling 3-month average Quarterly average	 1.5 µg/m^3 0.15 µg/m^3 1.5 µg/m^3

Source: http://www.aqmd.gov/ceqa/handbook/signthres.pdf

SHORT-TERM CONSTRUCTION EMISSIONS

Construction activities associated with the proposed project would have the potential to generate air emissions, toxic air contaminant emissions, and odor impacts. Assumptions for the phasing, duration, and required equipment for the construction of the proposed project were obtained from the project applicant. The construction activities for the proposed project are anticipated to include: demolition of an approximately 162,504 square foot (SF) existing building and approximately 475,800 SF of asphalt paving (totaling 10,686.864 tons of debris); grading of approximately 13.74 acres; construction of 85,239 square feet of warehouse, 170,478 square feet of manufacturing, 28,413 square feet of office use, and approximately 29,934 SF (5%) of landscaping; paving of a parking lot with 600 parking spaces; and application of architectural coatings. See Appendix B for more details.

The proposed project is anticipated to start demolition no sooner than August 2022 and being completed by October 2022, with all other construction phases beginning no sooner than June 2023 and being completed by June 2024. The project is anticipated to be operational in 2024. The grading phase is to include approximately 25,200 cubic yards of import.

Methodology

The following provides a discussion of the methodology used to calculate regional construction air emissions and an analysis of the proposed project's short-term construction emissions for the criteria pollutants. The construction-related regional air quality impacts have been analyzed for both criteria pollutants and GHGs.

Emissions are estimated using the CalEEMod (Version 2022.1) software, which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Regional data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California air districts to account for local requirements and conditions. The model is considered to be an accurate and comprehensive tool for quantifying air quality and GHG impacts from land use projects throughout California and is recommended by the SCAQMD.[5]

Daily regional emissions during construction are forecasted by assuming a conservative estimate of construction activities (i.e., assuming all construction occurs at the earliest feasible date) and applying the mobile source and fugitive dust emissions factors. The input values used in this analysis were adjusted to be project-specific for the construction schedule and the equipment used was based on CalEEMod defaults. The CalEEMod program uses the EMFAC2021 computer program to calculate the emission rates specific for the southern portion of Los Angeles County for construction-related employee vehicle trips and the OFFROAD2017 computer program to calculate emission rates for heavy truck operations. EMFAC2021 and OFFROAD2017 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour. Daily truck trips and CalEEMod default trip length data were used to assess roadway emissions from truck exhaust. The maximum daily emissions are estimated values for the worst-case day and do not represent the emissions that would occur for every day of project construction. The maximum daily emissions are compared to the SCAQMD daily regional numeric indicators. Detailed construction equipment lists, construction scheduling, and emission calculations are provided in Appendix B.

The project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site

[5] South Coast Air Quality Management District, California Emissions Estimator Model, http://www.aqmd.gov/caleemod/.

access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of the Project area (approximately 13.74 acres) a Fugitive Dust Control Plan or Large Operation Notification would not be required.

SCAQMD's Rule 403 minimum requirements require that the application of the best available dust control measures is used for all grading operations and include the application of water or other soil stabilizers in sufficient quantity to prevent the generation of visible dust plumes. Compliance with Rule 403 would require the use of water trucks during all phases where earth moving operations would occur. Compliance with Rule 403 has been included in the CalEEMod modeling for the proposed project.

Per SCAQMD Rule 1113 as amended on June 3, 2011, the architectural coatings that would be applied after January 1, 2014 will be limited to an average of 50 grams per liter or less. CalEEMod defaults have been adjusted accordingly.

The phases of the construction activities which have been analyzed below for each phase are: (1) demolition, (2) grading, (3) building construction, (4) paving, and (5) application of architectural coatings. Details pertaining to the project's construction timing and the type of equipment modeled for each construction phase are available in the CalEEMod output in Appendix B.

Construction-Related Regional Impacts

The construction-related criteria pollutant emissions for each phase are shown below in Table 6. Table 6 shows that none of the project's maximum daily emissions will exceed regional thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

Construction-Related Local Impacts

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

Local Air Quality Impacts from Construction

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (South Coast Air Quality Management District 2011b). CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the localized significance threshold lookup tables, the CEQA document should contain the following parameters:

(1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions.
(2) The maximum number of acres disturbed on the peak day.
(3) Any emission control devices added onto off-road equipment.
(4) Specific dust suppression techniques used on the day of construction activity with maximum emissions.

The CalEEMod output in Appendix B show the equipment used for this analysis.

As shown in Table 7, the maximum number of acres disturbed in a day would be 4 acres during grading**.** The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized

Significant Threshold Look-up Tables and the methodology described in Localized Significance Threshold Methodology prepared by SCAQMD (revised July 2008). The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The emission thresholds were calculated based on the Southwest Coastal LA County source receptor area (SRA) 3 and, to be conservative, a disturbance value of two acres per day. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25-meter thresholds. The nearest sensitive receptors to the project site are the existing single-family detached residential dwelling units located as close as approximately 215 feet west (~66 meters) of the project site; therefore, to be conservative, the SCAQMD Look-up Tables for 50 meters was used. Table 8 shows the on-site emissions from the CalEEMod model for the different construction phases and the LST emissions thresholds.

The data provided in Table 8 shows that none of the analyzed criteria pollutants would exceed the local emissions thresholds at the nearest sensitive receptors. Therefore, a less than significant local air quality impact would occur from construction of the proposed project.

Construction-Related Human Health Impacts

Regarding health effects related to criteria pollutant emissions, the applicable significance thresholds are established for regional compliance with the state and federal ambient air quality standards, which are intended to protect public health from both acute and long-term health impacts, depending on the potential effects of the pollutant. Because regional and local emissions of criteria pollutants during construction of the project would be below the applicable thresholds, it would not contribute to long-term health impacts related to nonattainment of the ambient air quality standards. Therefore, significant adverse acute health impacts as a result of project construction are not anticipated.

Construction-Related Toxic Air Contaminant Impacts

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to the Office of Environmental Health Hazard Assessment (OEHHA)[6] and the SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003),[7] health effects from TACs are described in terms of individual cancer risk based on a lifetime (i.e., 30-year) resident exposure duration. Given the temporary and short-term construction schedule (approximately 14 months), the project would not result in a long-term (i.e., lifetime or 30-year) exposure as a result of project construction. Furthermore, construction-based particulate matter (PM) emissions (including diesel exhaust emissions) do not exceed any local or regional thresholds.

The project would comply with the CARB Air Toxics Control Measure that limits diesel powered equipment and vehicle idling to no more than 5 minutes at a location, and the CARB In-Use Off-Road Diesel Vehicle Regulation; compliance with these would minimize emissions of TACs during construction. The project would also comply with the requirements of SCAQMD Rule 1403 if asbestos is found during the renovation and construction activities. Therefore, impacts from TACs during construction would be less than significant.

Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of

[6] Office of Environmental Health Hazard Assessment, Air Toxic Hot Spots Program Risk Assessment Guidelines Guidance Manual for Preparation of Health Risk Assessment, February 2015, https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.

[7] South Coast Air Quality Management District, Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis, August 2003,http://www.aqmd.gov/docs/default-source/ceqa/handbook/mobile-source-toxics-analysis.doc?sfvrsn=2.

short-term in nature and the odor emissions are expected to cease upon the drying or hardening of the odor producing materials. Due to the short-term nature and limited amounts of odor producing materials being utilized, no significant impact related to odors would occur during construction of the proposed project. Diesel exhaust and VOCs would be emitted during construction of the project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore should not reach an objectionable level at the nearest sensitive receptors.

Table 6
Construction-Related Regional Pollutant Emissions

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO_2	PM10	PM2.5
Maximum Daily Emissions[1,2,3]	24.30	47.10	36.70	0.11	7.56	3.58
SCAQMD Thresholds	75	100	550	150	150	55
Exceeds Thresholds?	**No**	**No**	**No**	**No**	**No**	**No**

Notes:

Source: CalEEMod Version 2022.1

(1) On-site emissions from equipment operated on-site that is not operated on public roads. On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.

(2) Construction, painting and paving phases may overlap.

(3) Architectural coating emissions include compliance with SCAQMD Rule 1113 limiting architectural coatings to 50 g/L VOC for buildings and 100 g/L VOC for parking lot striping.

Table 7
Maximum Number of Acres Disturbed Per Day

Activity	Equipment	Number	Acres/8hr-day	Total Acres
Demolition	Rubber Tired Dozers	2	0.5	1
Total for phase	**-**	**-**	**-**	**1**
Grading	Rubber Tired Dozers	1	0.5	0.5
	Graders	1	0.5	0.5
	Scrapers	2	1	2
	Crawler Tractors[1]	2	0.5	1
Total for phase		**-**	**-**	**4**

Notes:

Source: South Coast AQMD, Fact Sheet for Applying CalEEMod to Localized Significance Thresholds, 2011b.

(1) Tractor/loader/backhoe is a suitable surrogate for a crawler tractor per SCAQMD staff.

Table 8
Local Construction Emissions at the Nearest Receptors

Activity[1]	On-Site Pollutant Emissions (pounds/day)[2]			
	NOx	CO	PM10	PM2.5
Demolition	29.60	24.30	4.86	1.75
Grading	37.30	31.40	5.21	2.90
Building Construction	11.80	13.20	0.55	0.51
Paving	7.81	10.00	0.39	0.36
Architectural Coating	0.91	1.15	0.03	0.03
SCAQMD Thresholds[3]	128	1,158	23	7
Exceeds Threshold?	**No**	**No**	**No**	**No**

Notes:

(1) The project will disturb up to a maximum of 4 acres a day during grading (see Table 7).

(2) Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 2 acre, to be conservative, at a distance of 50 meters in SRA 3 Southwest Coastal LA County.

(3) The nearest sensitive receptors are the existing single-family detached residential dwelling units located as close as approximately 215 feet (~66 meters) west of the project site; therefore, to be conservative, the 50 meter threshold was used.

LONG-TERM OPERATIONAL EMISSIONS

The on-going operation of the proposed project would result in a long-term increase in air quality emissions. This increase would be due to emissions from the project-generated vehicle trips and through operational emissions from the on-going use of the proposed project. The following section provides an analysis of potential long-term air quality impacts due to: regional air quality and local air quality impacts with the on-going operations of the proposed project.

Operations-Related Regional Air Quality Impacts

The potential operations-related air emissions have been analyzed below for the criteria pollutants and cumulative impacts.

Operations-Related Criteria Pollutants Analysis

The operations-related criteria air quality impacts created by the proposed project have been analyzed through the use of the CalEEMod model. The operating emissions were based on the year 2024, which is the anticipated opening year per the 2555 W. 190th Street Warehouse/Manufacturing Project Traffic Impact Analysis (TIA) prepared by Linscott Law & Greenspan Engineers (July 27, 2022) for the proposed project. The operations daily emissions printouts from the CalEEMod model are provided in Appendix B. The CalEEMod analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips (trip generation rate) from the TIA into the CalEEMod Model. The TIA found that the proposed project will generate approximately 1,263 vehicle trips per day (non-PCE) and 1,562 vehicle trips per day (PCE). Trip generation rates included 4.75 trips per thousand square foot per day for the manufacturing use, 1.71 trips per thousand square foot per day for the warehouse use, and 10.84 trips per thousand square foot per day for the office use. As the TIA did not provide weekend trip rates, the Saturday trip generation rate of 2.21 trips per thousand square foot and Sunday trip generation rate of 0.7 trips per thousand square foot for the office use, the Saturday trip generation rate of 0.15 trips per thousand square foot and Sunday trip generation rate of 0.04 trips per thousand square foot for the warehouse, and the Saturday trip generation rate of 1.49 trips per thousand square foot and Sunday trip generation rate of 0.99 trips per thousand square foot for the manufacturing were utilized from the Institute of Transportation Engineers (ITE) 11th edition Trip Generation Manual (2021). The program then applies the emission factors for each trip which is provided by the EMFAC2021 model to determine the vehicular traffic pollutant emissions.

The TIA found that the proposed warehouse use would create 116 automobile round trips, 5 2-axle truck round trips, 7 3-axle truck round trips, and 18 4+-axle truck round trips per day (non-PCE). In addition, the proposed manufacturing use would create 644 automobile round trips, 27 2-axle truck round trips, 38 3-axle truck round trips, and 101 4+-axle truck round trips per day (non-PCE). The warehouse and manufacturing use vehicle mix were changed in CalEEMod to match the TIA (see Tables 9 and 10) and the percentages in CalEEMod for the warehouse and manufacturing uses were changed to 79.5% autos (H-W) and 20.5% trucks (W-O) to match the overall vehicle percentages given in the TIA. Due to the proposed project's location and proposed warehouse land use, the average customer-based trip length was increased to 40 miles per SCAQMD recommendation, while all other trip lengths were based on the urban default values.

Area Sources

Per the CAPCOA Appendix A Calculation Details for CalEEMod, area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel

combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment. No changes were made to the default area source parameters.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

Project Impacts

The worst-case summer or winter maximum daily criteria pollutant emissions created from the proposed project's long-term operations have been calculated and are shown below in Table 11. Table 11 shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

Operations-Related Local Air Quality Impacts

Project-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The proposed project has been analyzed for the potential local CO emission impacts from the project-generated vehicular trips and from the potential local air quality impacts from on-site operations. The following analysis analyzes the vehicular CO emissions, local impacts from on-site operations per SCAQMD LST methodology, and odor impacts.

Local CO Emission Impacts from Project-Generated Vehicular Trips

CO is the pollutant of major concern along roadways because the most notable source of CO is motor vehicles. For this reason, CO concentrations are usually indicative of the local air quality generated by a roadway network and are used as an indicator of potential local air quality impacts. Local air quality impacts can be assessed by comparing future without and with project CO levels to the State and Federal CO standards which were presented above.

To determine if the proposed project could cause emission levels in excess of the CO standards discussed above, a sensitivity analysis is typically conducted to determine the potential for CO "hot spots" at a number of intersections in the general project vicinity. Because of reduced speeds and vehicle queuing, "hot spots" potentially can occur at high traffic volume intersections with a Level of Service E or worse.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and air quality management plans. In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: South Long Beach Boulevard and Imperial Highway (Lynwood); Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The Los Angeles County Metropolitan Transportation Authority evaluated the Level of Service in the vicinity of the Wilshire

Boulevard/Veteran Avenue intersection and found it to be Level of Service E during the morning peak hour and Level of Service F during the afternoon peak hour.

The TIA showed that the proposed project would generate a maximum of approximately 1,263 vehicle trips per day (non-PCE) and 1,562 vehicle trips per day (PCE). The intersection with the highest traffic volume is located at Crenshaw Boulevard and Crenshaw Place and has an Existing with Ambient Growth (Year 2024) with Project PM peak hour volume of 2,258 vehicles. The 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan) showed that an intersection which has a daily traffic volume of approximately 100,000 vehicles per day would not violate the CO standard. Therefore, as both the intersection and ADT volumes fall far short of 100,000 vehicles per day, no CO "hot spot" modeling was performed and no significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

Local Air Quality Impacts from On-Site Operations

Project-related air emissions from on-site sources such as architectural coatings, landscaping equipment, on-site usage of natural gas appliances as well as the operation of vehicles on-site may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The nearest sensitive receptors that may be impacted by the proposed project are the existing single-family detached residential dwelling units located approximately 215 feet west of the project site.

The local air quality emissions from on-site operations were analyzed according to the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. Per SCAQMD staff, the 5-acre Look-up Table, which is the largest site available, can be used as a conservative screening analysis for on-site operational emissions to determine whether more-detailed dispersion modeling would be necessary. The proposed project was analyzed based on the Southwest Coastal LA County source receptor area (SRA) 3 and used the thresholds for a five-acre project site.

Table 12 shows the on-site emissions from the CalEEMod model that includes natural gas usage, landscape maintenance equipment, and vehicles operating on-site and the calculated emissions thresholds. Per LST methodology, mobile emissions include only on-site sources which equate to less than 10 percent of the project-related new mobile sources.[8] The data provided in Table 12 shows that the on-going unmitigated operations of the proposed project would not exceed SCAQMD local operational thresholds of significance.

Therefore, the on-going operations of the proposed project would create a less than significant operations-related impact to local air quality due to on-site emissions.

Operations-Related Odor Impacts

Potential sources that may emit odors during the on-going operations of the proposed project would include odor emissions from the intermittent diesel delivery truck emissions and trash storage areas. Due to the distance of the nearest receptors from the project site and through compliance with SCAQMD's Rule 402 no significant impact related to odors would occur during the on-going operations of the proposed project.

[8] The project site is approximately 0.22 miles in length at its longest point; therefore the on-site mobile source emissions represent approximately 1/31 of the shortest CalEEMod default distance of 6.9 miles. Therefore, to be conservative, 1/10th the distance (dividing the mobile source emissions by 10) was used to represent the portion of the overall mobile source emissions that would occur on-site.

Table 9
CalEEMod Revised Vehicle Mix Parameters for Warehousing

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles[3]	Ratio	Number of Vehicles[3]
Light Auto	Automobile	0.512	75	0.431	63
Light Truck < 3750 lbs	Automobile	0.045	7	0.038	6
Light Truck 3751-5750 lbs	Automobile	0.228	33	0.192	28
Med Truck 5751-8500 lbs	Automobile	0.139	20	0.117	17
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.026	4	0.028	4
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.006	1	0.007	1
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.011	2	0.046	7
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.008	1	0.123	18
Other Bus	--	0.001	0	0.000	0
Urban Bus	--	0.001	0	0.000	0
Motorcycle	Automobile	0.021	3	0.018	3
School Bus	--	0.001	0	0.000	0
Motor Home	--	0.003	0	0.000	0
Total		**1.0**	**146**	**1.0**	**146**

Notes:

(1) Source: CalEEMod Version 2022.1 default values for Opening year of 2024.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 79.57% Autos, 3.46% 2-Axle Trucks, 4.64% 3-Axle Trucks and 12.33% 4+ Axle Trucks for the warehouse use.

(3) Non-PCE (Passenger Car Equivalent)

Table 10
CalEEMod Revised Vehicle Mix Parameters for Manufacturing

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles[3]	Ratio	Number of Vehicles[3]
Light Auto	Automobile	0.512	415	0.431	349
Light Truck < 3750 lbs	Automobile	0.045	36	0.038	31
Light Truck 3751-5750 lbs	Automobile	0.228	184	0.192	156
Med Truck 5751-8500 lbs	Automobile	0.139	112	0.117	95
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.026	21	0.028	23
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.006	5	0.007	6
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.011	9	0.046	38
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.008	7	0.123	100
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	1	0.000	0
Motorcycle	Automobile	0.021	17	0.018	14
School Bus	--	0.001	1	0.000	0
Motor Home	--	0.003	2	0.000	0
Total		**1.0**	**810**	**1.0**	**810**

Notes:

(1) Source: CalEEMod Version 2022.1 default values for Opening year of 2024.

(2) Revised per the vehicle mix provided in the Traffic Impact Analysis of 79.57% Autos, 3.46% 2-Axle Trucks, 4.64% 3-Axle Trucks and 12.33% 4+ Axle Trucks for the manufacturing use.

(3) Non-PCE (Passenger Car Equivalent)

Table 11
Regional Operational Pollutant Emissions

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO2	PM10	PM2.5
Maximum Daily Emissions	9.95	6.12	27.30	0.06	1.26	0.57
SCAQMD Thresholds	55	55	550	150	150	55
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Notes:

Source: CalEEMod Version 2022.1; the higher of either summer or winter emissions.

Table 12
Local Operational Emissions at the Nearest Receptors

On-Site Emission Source	On-Site Pollutant Emissions (pounds/day)[1]			
	NOx	CO	PM10	PM2.5
Area Sources[2]	0.10	12.40	0.02	0.02
Energy Usage[3]	5.00	4.20	0.38	0.38
Vehicle Emissions[4]	0.11	1.08	0.09	0.02
Total Emissions	5.21	17.68	0.49	0.42
SCAQMD Thresholds[5]	189	1,984	12	3
Exceeds Threshold?	**No**	**No**	**No**	**No**

Notes:

(1) Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 5 acres.

(2) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.

(3) Energy usage consists of emissions from on-site natural gas usage.

(4) On-site vehicular emissions based on 1/10 of the gross vehicular emissions and road dust.

(5) The nearest sensitive receptors are the existing single-family detached residential dwelling units located as close as approximately 215 feet (~66 meters) west of the project site; therefore, to be conservative, the 50 meter threshold was used.

CUMULATIVE AIR QUALITY IMPACTS

There are a number of cumulative projects in the project area that have not yet been built or are currently under construction. Since the timing or sequencing of the cumulative projects is unknown, any quantitative analysis to ascertain daily construction emissions that assumes multiple, concurrent construction projects would be speculative. Further, cumulative projects include local development as well as general growth within the project area. However, as with most development, the greatest source of emissions is from mobile sources, which travel well out of the local area. Therefore, from an air quality standpoint, the cumulative analysis would extend beyond any local projects and when wind patterns are considered would cover an even larger area. The SCAQMD recommends using two different methodologies: (1) that project-specific air quality impacts be used to determine the potential cumulative impacts to regional air quality;[9] and (2) that a project's consistency with the current AQMP be used to determine its potential cumulative impacts.

Project Specific Impacts

The project area is out of attainment for ozone and in 2020 was out of state attainment for PM10. Construction and operation of cumulative projects will further degrade the local air quality, as well as the air quality of the South Coast Air Basin. The greatest cumulative impact on the quality of regional air cell will be the incremental addition of pollutants mainly from increased traffic volumes from residential, commercial, and industrial development and the use of heavy equipment and trucks associated with the construction of these projects. Air quality will be temporarily degraded during construction activities that occur separately or simultaneously. However, in accordance with the SCAQMD methodology, projects that do not exceed the SCAQMD criteria or can be mitigated to less than criteria levels are not significant and do not add to the overall cumulative impact. A significant impact may occur if a project would add a cumulatively considerable contribution of a federal or state non-attainment pollutant.

Project operations would generate emissions of NOx, ROG, CO, PM10, and PM2.5, which would not exceed the SCAQMD regional or local thresholds and would not be expected to result in ground level concentrations that exceed the NAAQS or CAAQS. Since the project would not introduce any substantial stationary sources of emissions, CO is the benchmark pollutant for assessing local area air quality impacts from post-construction motor vehicle operations. As indicated earlier, no violations of the state and federal CO standards are projected to occur for the project, based on the magnitude of traffic the project is anticipated to create. Therefore, with incorporation of sustainable design and compliance with regulation, operation of the project would not result in a cumulatively considerable net increase for non-attainment of criteria pollutants or ozone precursors. As a result, the project would result in a less than significant cumulative impact for operational emissions.

Air Quality Compliance

The California Environmental Quality Act (CEQA) requires a discussion of any inconsistencies between a proposed project and applicable General Plans and Regional Plans (CEQA Guidelines Section 15125). The regional plan that applies to the proposed project includes the SCAQMD Air Quality Management Plan (AQMP). Therefore, this section discusses any potential inconsistencies of the proposed project with the AQMP.

The purpose of this discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the proposed project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-makers determine that the proposed project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

[9] South Coast Air Quality Management District, Potential Control Strategies to Address Cumulative Impacts from Air Pollution White Paper, 1993, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook.

The SCAQMD CEQA Handbook states that "New or amended General Plan Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP". Strict consistency with all aspects of the plan is usually not required. A proposed project should be considered to be consistent with the AQMP if it furthers one or more policies and does not obstruct other policies. The SCAQMD CEQA Handbook identifies two key indicators of consistency:

(1) Whether the project will result in an increase in the frequency or severity of existing air quality violations, or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
(2) Whether the project will exceed the assumptions in the AQMP in 2016 or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

Criteria 1 – Increase in the Frequency or Severity of Violations

Based on the air quality modeling analysis contained in this Air Analysis, short-term construction impacts will not result in significant impacts based on the SCAQMD regional and local thresholds of significance. This Air Analysis also found that, long-term operations impacts will not result in significant impacts based on the SCAQMD local and regional thresholds of significance.

Therefore, the proposed project is not projected to contribute to the exceedance of any air pollutant concentration standards and is found to be consistent with the AQMP for the first criterion.

Criteria 2 – Exceed Assumptions in the AQMP?

Consistency with the AQMP assumptions is determined by performing an analysis of the proposed project with the assumptions in the AQMP. The emphasis of this criterion is to ensure that the analyses conducted for the proposed project are based on the same forecasts as the AQMP. The 2016-2040 Regional Transportation/Sustainable Communities Strategy prepared by SCAG (2016) includes chapters on: the challenges in a changing region, creating a plan for our future, and the road to greater mobility and sustainable growth. These chapters currently respond directly to federal and state requirements placed on SCAG. Local governments are required to use these as the basis of their plans for purposes of consistency with applicable regional plans under CEQA. For this project, the City of Torrance Land Use Plan defines the assumptions that are represented in the AQMP.

The Project Site has a City of Torrance General Plan land use designation of Heavy Industrial (I-HVY). The project proposes to develop the site with an industrial warehouse/manufacturing facility that could range between 270,600 square feet to 284,130 square feet. The proposed project is consistent with the existing land use designation. Therefore, the proposed project is not anticipated to exceed the AQMP assumptions for the project site and is found to be consistent with the AQMP for the second criterion.

Based on the above, the proposed project will not result in an inconsistency with the SCAQMD AQMP. Therefore, a less than significant impact will occur.

3. DIESEL EMISSIONS HEALTH RISK ASSESSMENT

The on-going operation of 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.

EMISSION 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 from 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 TIA.

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 TIA showed the project is expected to generate approximately 956 (non-passenger car equivalents [PCE]) vehicle trips per day from the warehouse and manufacturing uses. Of those vehicle trips, 759 are automobile round trips, 33 are 2-axle truck round trips, 45 are 3-axle truck round trips, and 119 are 4+-axle truck round trips per day (non-passenger car equivalents).

Per the TIA, the vehicle mix for the warehouse/manufacturing portion of the proposed project was based on surveys conducted at existing similar facilities, with a mix of 3.4 percent 2-axle trucks, 4.8 percent 3-axle trucks and 12.3 percent 4-axle trucks for the warehouse use and a mix of 3.3 percent 2-axle trucks, 4.7 percent 3-axle trucks and 12.5 percent 4-axle trucks for the manufacturing use.

Estimate of Emission Factors

PM 2.5 running and idling exhaust emissions are used as a surrogate for DPM. The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2021 mobile source emission model. The emissions factors were derived for Los Angeles County (see Appendix C). The third trimester exposure used opening year (2024) emissions factors, 2-year factors (for infant exposure) reflect years 2025 and 2026, 14-year average factors (for child exposure during years 2-16) reflect emissions during the first 14 years of operation (2027 to 2040), and the second 14 years of exposure (years 2041-2054) were used for assessment of exposure during years 16 to 30.

Emissions factors were estimated to establish the emissions generated while the vehicles travel off-site, along travel links from the entrance to the proposed buildings, and while idling at the proposed building. 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 facility entrance, at the loading bay, and at the facility exit, 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 13. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2024 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. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 14:

- 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, emission source locations, and the locations of the nearest sensitive receptors (the pre-school facility and the single-family detached residential dwelling units located along the western side of Crenshaw Boulevard, and north of 190th St, east of Van Ness Avenue). The pre-school receptor is shown as an orange triangle labeled Preschool_1, the closest residential receptors are shown as orange triangles labeled 2 through 8. The direction of on and off-site truck travel was estimated based on the TIA, site plan, and/or traffic engineer.

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 existing sensitive receptors surrounding the proposed project (as detailed above). In addition, the identified closest (representative) 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. The locations of the discrete 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 10.2.1, EPA version No. 21112, was utilized for this analysis.

General Model Assumptions

A summary of Emission Configurations is shown in Table 14. The basic options used in the dispersion modeling are summarized in Table 15.

As indicated in Table 15 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 (loading docks) location, building location and height were taken from the project site plan.

Meteorological Data

Meteorological data (processed with the ADJ_U option) from the Air District's Hawthorne 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 http://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/m3)] = (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 "M" Table 9.1 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 C. Figure 5 illustrates the cancer risk to the most affected age-group, children (2-16-years). Table 16 show the cancer risk for the unborn child during the 3rd trimester, Table 17 shows the cancer risk to infants (0-2 years), Table 18 shows the cancer risk to children ages 2 to 16 years and Table 19 shows the cancer risk as that child becomes an adult (years 16-30).

The highest cancer risk corresponds to receptors 2 and 3, with a maximum risk of 0.45 in one million. The maximum 3rd trimester (0.25-year) cancer risk is at receptors 2 through 4; with a maximum cancer risk of 0.02 in a million. The highest child (2-16 years) cancer risk is at receptor 2; with a maximum risk of 0.42 in one million and the highest adult (16-30 years) cancer risk is at receptors 2 through 4; with a maximum risk of 0.04 in one million. Therefore, no children, infants, 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 0.94 in a million, as shown in Table 20.

Therefore, 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. As the residential cancer risk does not exceed 10 in a million, it is anticipated that any offsite worker risk (where the potential for exposure is only 8 hours instead of 24 hours per day) would also not exceed 10 in a million.

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 µg/m3.
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 residential adult, 3rd trimester, child and infant receptors are also detailed in Tables 16 through 19 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 for years 2024-2054, the resulting Hazard Index is:

HIDPM = 0.00147/5 = 0.0003

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 mobile source diesel emissions created by the proposed project.

Table 13
DPM Emissions Factors for the Proposed Project

Vehicle Class	1-Year Average (Opening Year-2024)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77769	0.05435	0.02193
Medium Heavy Duty Truck	0.07273	0.03833	0.00897
Heavy Heavy Duty Truck	0.01537	0.01217	0.00826

Vehicle Class	2-Year Average (2025-2026)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77753	0.04865	0.02001
Medium Heavy Duty Truck	0.05503	0.02941	0.00714
Heavy Heavy Duty Truck	0.01428	0.01163	0.00785

Vehicle Class	14-Year Average (First 14 years of Operation - 2027-2040)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.76775	0.03871	0.01716
Medium Heavy Duty Truck	0.01857	0.00993	0.00305
Heavy Heavy Duty Truck	0.01107	0.00948	0.00644

Vehicle Class	14-Year Average (Second14 years of Operation - 2041-2054)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.76173	0.03537	0.01654
Medium Heavy Duty Truck	0.00731	0.00320	0.00151
Heavy Heavy Duty Truck	0.00973	0.00818	0.00564

Notes:

Source: EMFAC2021.

Table 14
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 sources (along Crenshaw Blvd, Crenshaw Pl, and along 190th St))
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021
On-Site Diesel Truck Traffic	Line Sources	Stack release height: 3.5 m
		Vehicle speed: 10 mph
		Length of the line source (distance from the facility entrances to the loading docks)
		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 the loading docks	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 15
General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP - NED GEOTIFF 30 m
Emission source configuration	See Table 15
Regulatory dispersion options	Default
Land use	Urban
Coordinate system	UTM, Zone 11 north
Building downwash	Included in calculations
Receptor height	0 meters above ground (per SCAQMD methodology)
Meteorological data	SCAQMD Hawthorne Meteorological Data

Table 16
Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-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)
Preschool_1	0.00097	9.7E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
2	0.00147	1.5E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003
3	0.00146	1.5E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003
4	0.00125	1.3E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003
5	0.00097	9.7E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
6	0.00077	7.7E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
7	0.00099	9.9E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
8	0.00093	9.3E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002

Notes:

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

Table 17
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)
Preschool_1	0.00091	9.1E-07	1.00E+00	DPM	1.1E+00	0.30	5.0E+00	1.4E-03	0.0002
2	0.00138	1.4E-06	1.00E+00	DPM	1.1E+00	0.45	5.0E+00	1.4E-03	0.0003
3	0.00136	1.4E-06	1.00E+00	DPM	1.1E+00	0.45	5.0E+00	1.4E-03	0.0003
4	0.00117	1.2E-06	1.00E+00	DPM	1.1E+00	0.38	5.0E+00	1.4E-03	0.0002
5	0.0009	9.0E-07	1.00E+00	DPM	1.1E+00	0.30	5.0E+00	1.4E-03	0.0002
6	0.00072	7.2E-07	1.00E+00	DPM	1.1E+00	0.24	5.0E+00	1.4E-03	0.0001
7	0.00091	9.1E-07	1.00E+00	DPM	1.1E+00	0.30	5.0E+00	1.4E-03	0.0002
8	0.00085	8.5E-07	1.00E+00	DPM	1.1E+00	0.28	5.0E+00	1.4E-03	0.0002

Notes:

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

Table 18
Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario (14-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)
Preschool_1	0.00077	7.7E-07	1.00E+00	DPM	1.1E+00	0.28	5.0E+00	1.4E-03	0.0002
2	0.00116	1.2E-06	1.00E+00	DPM	1.1E+00	0.42	5.0E+00	1.4E-03	0.0002
3	0.00114	1.1E-06	1.00E+00	DPM	1.1E+00	0.41	5.0E+00	1.4E-03	0.0002
4	0.00099	9.9E-07	1.00E+00	DPM	1.1E+00	0.36	5.0E+00	1.4E-03	0.0002
5	0.00076	7.6E-07	1.00E+00	DPM	1.1E+00	0.28	5.0E+00	1.4E-03	0.0002
6	0.0006	6.0E-07	1.00E+00	DPM	1.1E+00	0.22	5.0E+00	1.4E-03	0.0001
7	0.00073	7.3E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0001
8	0.00067	6.7E-07	1.00E+00	DPM	1.1E+00	0.24	5.0E+00	1.4E-03	0.0001

Notes:

Exposure factors used to calculate TAC intake:

Exposure Frequency (days/year)	350
Exposure Duration (years)	14
Daily Breathing Rate	572.00
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^, i.e. E-02 = 10^{-2}

Table 19
Carcinogenic Risks and Non-Carcinogenic Hazards Adult Exposure Scenario (14 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)
Preschool_1	0.00073	6.9E-04	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
2	0.0011	8.3E-04	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
3	0.00108	1.9E-03	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
4	0.00093	1.4E-03	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
5	0.00071	1.4E-03	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
6	0.00056	1.0E-03	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
7	0.00066	6.6E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
8	0.0006	6.0E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001

Notes:

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

Table 20
Cumulative Carcinogenic Risk
30.25 Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
Preschool_1	0.62
2	0.94
3	0.92
4	0.80
5	0.61
6	0.49
7	0.60
8	0.56

N

Legend

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

Figure 3
AERMOD Model Source and Receptor Placement

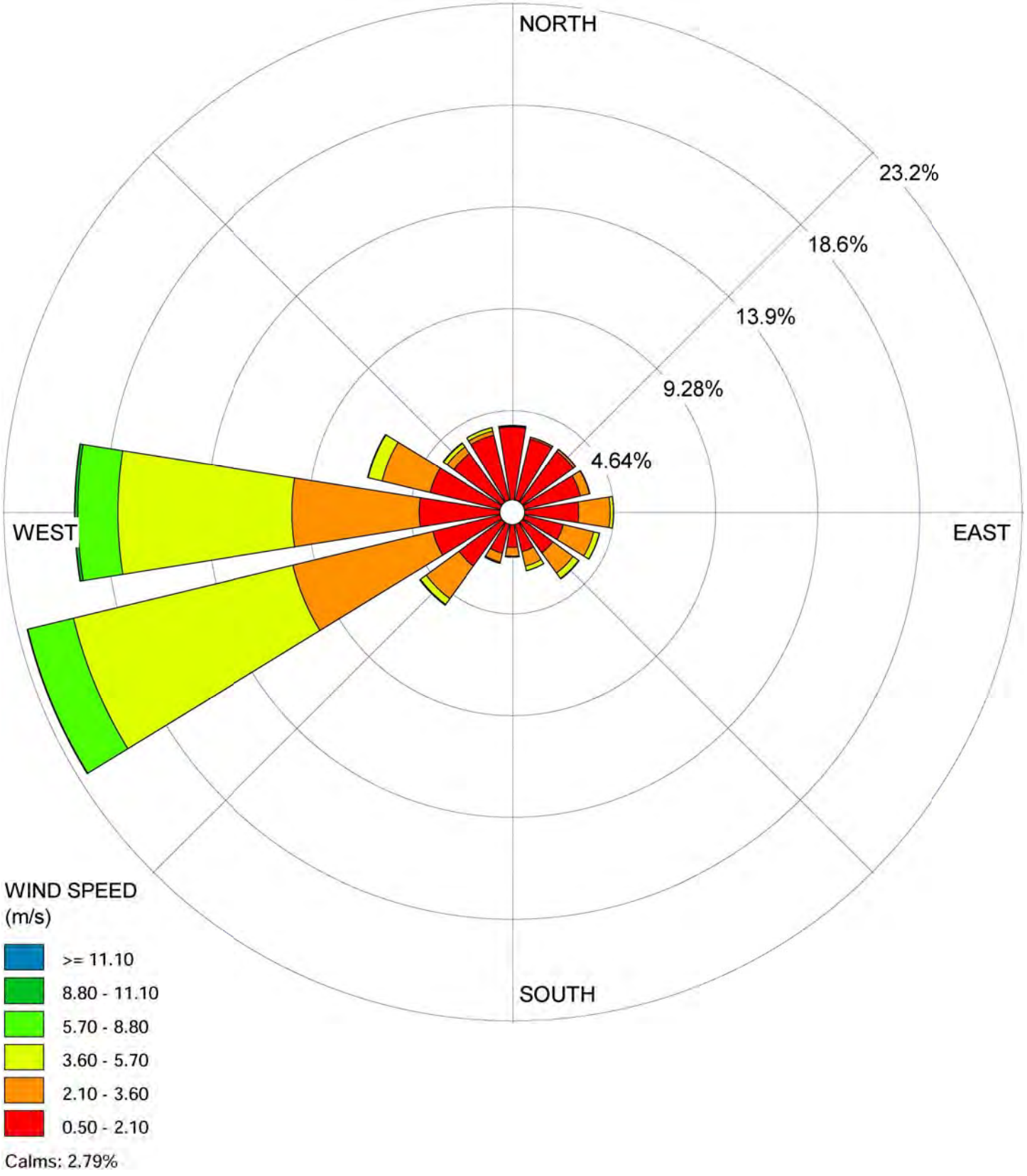
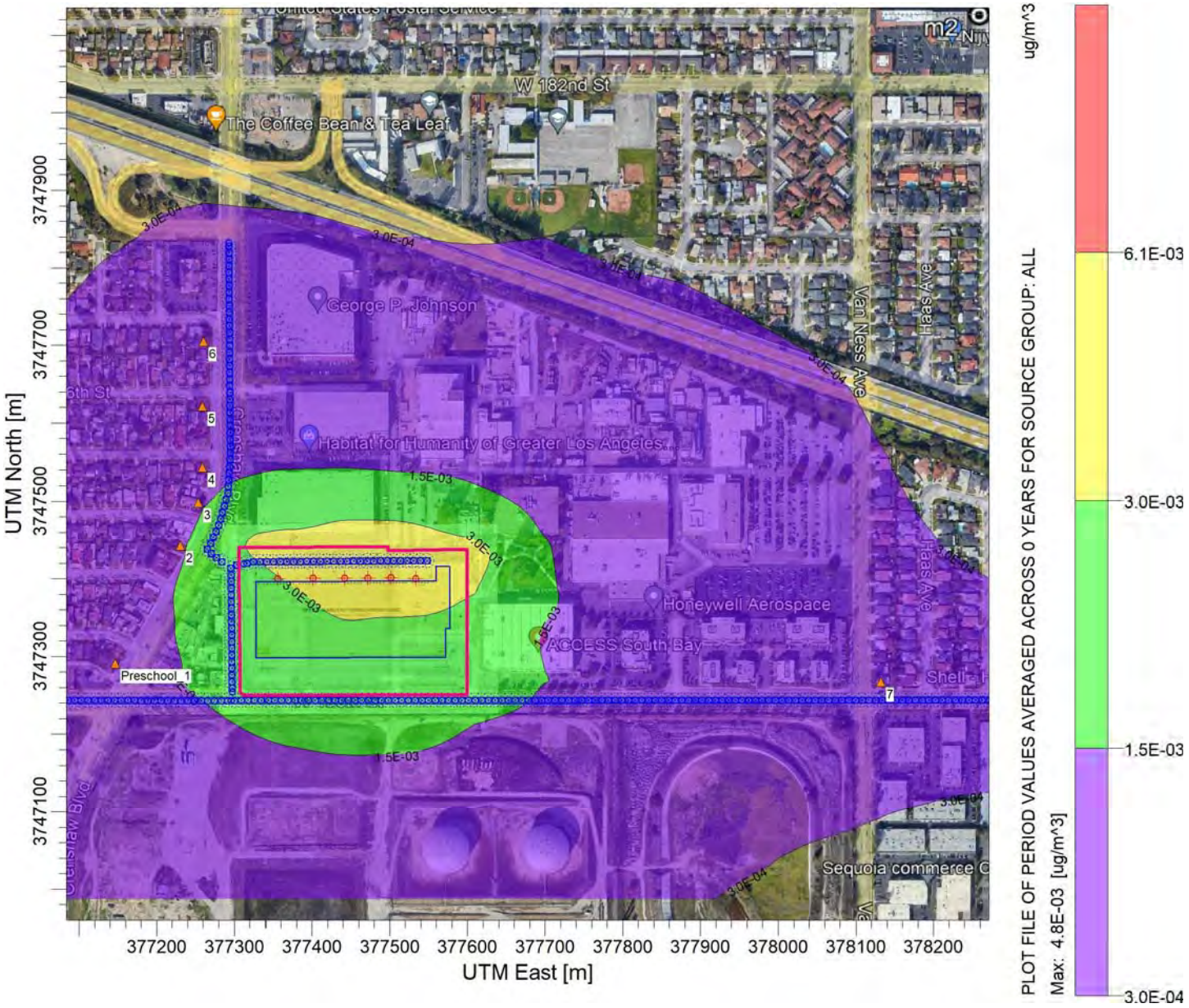


Figure 4
Wind Rose: Hawthorne



N

Legend

Cancer Risk to Infants 0-2 Years

- 2 in a million
- 1 in a million
- 0.5 in a million
- 0.1 in a million

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

4. GLOBAL CLIMATE CHANGE ANALYSIS

EXISTING GREENHOUSE GAS ENVIRONMENT

Constituent gases of the Earth's atmosphere, called atmospheric greenhouse gases (GHG), play a critical role in the Earth's radiation amount by trapping infrared radiation emitted from the Earth's surface, which otherwise would have escaped to space. Prominent greenhouse gases contributing to this process include carbon dioxide (CO_2), methane (CH_4), ozone, water vapor, nitrous oxide (N_2O), and chlorofluorocarbons (CFCs). This phenomenon, known as the Greenhouse Effect, is responsible for maintaining a habitable climate. Anthropogenic (caused or produced by humans) emissions of these greenhouse gases in excess of natural ambient concentrations are responsible for the enhancement of the Greenhouse Effect and have led to a trend of unnatural warming of the Earth's natural climate, known as global warming or climate change. Emissions of gases that induce global warming are attributable to human activities associated with industrial/manufacturing, agriculture, utilities, transportation, and residential land uses. Transportation is responsible for 41 percent of the State's greenhouse gas emissions, followed by electricity generation. Emissions of CO_2 and nitrous oxide (NOx) are byproducts of fossil fuel combustion. Methane, a potent greenhouse gas, results from off-gassing associated with agricultural practices and landfills. Sinks of CO_2, where CO_2 is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the greenhouse gases and their global warming potential.

Water Vapor

Water vapor is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere it maintains a climate necessary for life. Changes in its concentration are primarily considered a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to "hold" more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the Earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on and so on. This is referred to as a "positive feedback loop". The extent to which this positive feedback loop will continue is unknown as there is also dynamics that put the positive feedback loop in check. As an example, when water vapor increases in the atmosphere, more of it will eventually also condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the Earth's surface and heat it up).

Carbon Dioxide (CO_2)

The natural production and absorption of CO_2 is achieved through the terrestrial biosphere and the ocean. However, humankind has altered the natural carbon cycle by burning coal, oil, natural gas, and wood. Since the industrial revolution began in the mid-1700s. Each of these activities has increased in scale and distribution. CO_2 was the first GHG demonstrated to be increasing in atmospheric concentration with the first conclusive measurements being made in the last half of the 20th century. Prior to the industrial revolution, concentrations were fairly stable at 280 parts per million (ppm). The International Panel on Climate Change (IPCC Fifth Assessment Report, 2014) Emissions of CO_2 from fossil fuel combustion and industrial processes contributed about 78% of the total GHG emissions increase from 1970 to 2010, with a similar percentage contribution for the increase during the period 2000 to 2010. Globally, economic and population growth continued to be the most important drivers of increases in CO_2 emissions from fossil fuel combustion. The contribution of population growth between 2000 and 2010 remained roughly identical to the previous three decades, while the contribution of economic growth has risen sharply.

Methane (CH_4)

CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of CO_2. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as CO_2, N_2O, and Chlorofluorocarbons (CFCs). CH_4 has both natural and anthropogenic sources. It is released as part of the biological processes in low oxygen environments, such as in swamplands or in rice production (at the roots of the plants). Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of methane. Other anthropocentric sources include fossil-fuel combustion and biomass burning.

Nitrous Oxide (N_2O)

Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration of this GHG was documented at 314 parts per billion (ppb). N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its atmospheric load. It is also commonly used as an aerosol spray propellant, (i.e., in whipped cream bottles, in potato chip bags to keep chips fresh, and in rocket engines and in race cars).

Chlorofluorocarbons (CFC)

CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the Earth's surface). CFCs have no natural source, but were first synthesized in 1928. It was used for refrigerants, aerosol propellants, and cleaning solvents. Due to the discovery that they are able to destroy stratospheric ozone, a global effort to halt their production was undertaken and in 1989 the European Community agreed to ban CFCs by 2000 and subsequent treaties banned CFCs worldwide by 2010. This effort was extremely successful, and the levels of the major CFCs are now remaining level or declining. However, their long atmospheric lifetimes mean that some of the CFCs will remain in the atmosphere for over 100 years.

Hydrofluorocarbons (HFC)

HFCs are synthetic man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential. The HFCs with the largest measured atmospheric abundances are (in order), HFC-23 (CHF_3), HFC-134a (CF_3CH_2F), and HFC-152a (CH_3CHF_2). Prior to 1990, the only significant emissions were HFC-23. HFC-134a use is increasing due to its use as a refrigerant. Concentrations of HFC-23 and HFC-134a in the atmosphere are now about 10 parts per trillion (ppt) each. Concentrations of HFC-152a are about 1 ppt. HFCs are manmade for applications such as automobile air conditioners and refrigerants.

Perfluorocarbons (PFC)

PFCs have stable molecular structures and do not break down through the chemical processes in the lower atmosphere. High-energy ultraviolet rays about 60 kilometers above Earth's surface are able to destroy the compounds. Because of this, PFCs have very long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). Concentrations of CF_4 in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

Sulfur Hexafluoride (SF_6)

SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 has the highest global warming potential of any gas evaluated; 23,900 times that of CO_2. Concentrations in the 1990s were about 4 ppt. Sulfur hexafluoride is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.

Aerosols

Aerosols are particles emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light. Cloud formation can also be affected by aerosols. Sulfate aerosols are emitted when fuel containing sulfur is burned. Black carbon (or soot) is emitted during biomass burning due to the incomplete combustion of fossil fuels. Particulate matter regulation has been lowering aerosol concentrations in the United States; however, global concentrations are likely increasing.

Global Warming Potential

The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO_2). The larger the GWP, the more that a given gas warms the Earth compared to CO_2 over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure, which allows analysts to add up emissions estimates of different gases (e.g., to compile a national GHG inventory), and allows policymakers to compare emissions reduction opportunities across sectors and gases. A summary of the atmospheric lifetime and the global warming potential of selected gases are summarized in Table 21. As shown in Table 21, the global warming potential of GHGs ranges from 1 to 22,800.

Table 21
Global Warming Potentials and Atmospheric Lifetimes

Gas	Atmospheric Lifetime	(100 Year Horizon)
Carbon Dioxide (CO_2)	-- [2]	1
Methane (CH_4)	12	28-36
Nitrous Oxide (NO)	114	298
Hydrofluorocarbons (HFCs)	1-270	12-14,800
Perfluorocarbons (PFCs)	2,600-50,000	7,390-12,200
Nitrogen trifluoride (NF_3)	740	17,200
Sulfur Hexafluoride (SF_6)	3,200	22,800

Notes:

Source: http://www3.epa.gov/climatechange/ghgemissions/gases.html

(1) Compared to the same quantity of CO_2 emissions.

(2) Carbon dioxide's lifetime is poorly defined because the gas is not destroyed over time, but instead moves among different parts of the ocean–atmosphere–land system. Some of the excess carbon dioxide will be absorbed quickly (for example, by the ocean surface), but some will remain in the atmosphere for thousands of years, due in part to the very slow process by which carbon is transferred to ocean sediments.

GREENHOUSE GAS STANDARDS AND REGULATION

International

Montreal Protocol

In 1988, the United Nations established the Intergovernmental Panel on Climate Change (IPCC) to evaluate the impacts of global climate change and to develop strategies that nations could implement to curtail global climate change. In 1992, the United States joined other countries around the world in signing the United Nations' Framework Convention on Climate Change (UNFCCC) agreement with the goal of controlling GHG emissions. As a result, the Climate Change Action Plan was developed to address the reduction of GHGs in the United States. The plan consists of more than 50 voluntary programs.

Additionally, the Montreal Protocol was originally signed in 1987 and substantially amended in 1990 and 1992. The Montreal Protocol stipulates that the production and consumption of compounds that deplete ozone in the stratosphere—CFCs, halons, carbon tetrachloride, and methyl chloroform—were to be phased out, with the first three by the year 2000 and methyl chloroform by 2005.

The Paris Agreement

The Paris Agreement became effective on November 4, 2016. Thirty days after this date at least 55 Parties to the United Nations Framework Convention on Climate Change (Convention), accounting in total for at least an estimated 55 % of the total global greenhouse gas emissions, had deposited their instruments of ratification, acceptance, approval or accession with the Depositary.

The Paris Agreement built upon the Convention and – for the first time – attempted to bring all nations into a common cause to undertake ambitious efforts to combat climate change and adapt to its effects, with enhanced support to assist developing countries to do so. As such, it charts a new course in the global climate effort.

The Paris Agreement's central aim is to strengthen the global response to the threat of climate change by keeping a global temperature rise this century well below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. Additionally, the agreement aims to strengthen the ability of countries to deal with the impacts of climate change. To reach these ambitious goals, appropriate financial flows, a new technology framework and an enhanced capacity building framework will be put in place, thus supporting action by developing countries and the most vulnerable countries, in line with their own national objectives. The Agreement also provides for enhanced transparency of action and support through a more robust transparency framework.

Federal

The United States Environmental Protection Agency (USEPA) is responsible for implementing federal policy to address GHGs. The federal government administers a wide array of public-private partnerships to reduce the GHG intensity generated in the United States. These programs focus on energy efficiency, renewable energy, methane and other non-CO2 gases, agricultural practices, and implementation of technologies to achieve GHG reductions. The USEPA implements numerous voluntary programs that contribute to the reduction of GHG emissions. These programs (e.g., the ENERGY STAR labeling system for energy-efficient products) play a significant role in encouraging voluntary reductions from large corporations, consumers, industrial and commercial buildings, and many major industrial sectors.

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), argued November 29, 2006 and decided April 2, 2007, the U.S. Supreme Court held that not only did the EPA have authority to regulate greenhouse gases, but the EPA's reasons for not regulating this area did not fit the statutory requirements. As

such, the U.S. Supreme Court ruled that the EPA should be required to regulate CO_2 and other greenhouse gases as pollutants under the federal Clean Air Act (CAA).

In response to the FY2008 Consolidations Appropriations Act (H.R. 2764; Public Law 110-161), EPA proposed a rule on March 10, 2009 that requires mandatory reporting of GHG emissions from large sources in the United States. On September 22, 2009, the Final Mandatory Reporting of GHG Rule was signed and published in the Federal Register on October 30, 2009. The rule became effective on December 29, 2009. This rule requires suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons or more per year of GHG emissions to submit annual reports to EPA.

On December 7, 2009, the EPA Administrator signed two distinct findings under section 202(a) of the Clean Air Act. One is an endangerment finding that finds concentrations of the six GHGs in the atmosphere threaten the public health and welfare of current and future generations. The other is a cause or contribute finding, that finds emissions from new motor vehicles and new motor vehicle engines contribute to the GHG pollution which threatens public health and welfare. These actions will not themselves impose any requirements on industry or other entities. However, it is a prerequisite to finalizing the EPA's proposed GHG emission standards for light-duty vehicles, which were jointly proposed by the EPA and Department of Transportation on September 15, 2009.

Clean Air Act

In Massachusetts v. Environmental Protection Agency (Docket No. 05–1120), the U.S. Supreme Court held in April of 2007 that the USEPA has statutory authority under Section 202 of the federal Clean Air Act (CAA) to regulate GHGs. The court did not hold that the USEPA was required to regulate GHG emissions; however, it indicated that the agency must decide whether GHGs cause or contribute to air pollution that is reasonably anticipated to endanger public health or welfare. On December 7, 2009, the USEPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA. The USEPA adopted a Final Endangerment Finding for the six defined GHGs (CO2, CH4, N2O, HFCs, PFCs, and SF6) on December 7, 2009. The Endangerment Finding is required before USEPA can regulate GHG emissions under Section 202(a)(1) of the CAA consistently with the United States Supreme Court decision. The USEPA also adopted a Cause or Contribute Finding in which the USEPA Administrator found that GHG emissions from new motor vehicle and motor vehicle engines are contributing to air pollution, which is endangering public health and welfare. These findings do not, by themselves, impose any requirements on industry or other entities. However, these actions were a prerequisite for implementing GHG emissions standards for vehicles.

Energy Independence Security Act

The Energy Independence and Security Act of 2007 (EISA) facilitates the reduction of national GHG emissions by requiring the following:

- Increasing the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard (RFS) that requires fuel producers to use at least 36 billion gallons of biofuel in 2022;
- Prescribing or revising standards affecting regional efficiency for heating and cooling products, procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances;
- Requiring approximately 25 percent greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014; requiring approximately 200 percent greater efficiency for light bulbs, or similar energy savings, by 2020; and
- While superseded by the USEPA and NHTSA actions described above, (i) establishing miles per gallon targets for cars and light trucks and (ii) directing the NHTSA to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for trucks.

Additional provisions of EISA address energy savings in government and public institutions, promote research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green jobs.[10]

Executive Order 13432

In response to the Massachusetts v. Environmental Protection Agency ruling, the President signed Executive Order 13432 on May 14, 2007, directing the USEPA, along with the Departments of Transportation, Energy, and Agriculture, to initiate a regulatory process that responds to the Supreme Court's decision. Executive Order 13432 was codified into law by the 2009 Omnibus Appropriations Law signed on February 17, 2009. The order sets goals in the areas of energy efficiency, acquisition, renewable energy, toxics reductions, recycling, sustainable buildings, electronics stewardship, fleets, and water conservation. Light-Duty Vehicle Greenhouse Gas and Corporate Average Fuel Economy Standards.

On May 19, 2009, President Obama announced a national policy for fuel efficiency and emissions standards in the United States auto industry. The adopted federal standard applies to passenger cars and light-duty trucks for model years 2012 through 2016. The rule surpasses the prior Corporate Average Fuel Economy standards (CAFE)[11] and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO2 per mile by model year 2016, based on USEPA calculation methods. These standards were formally adopted on April 1, 2010. In August 2012, standards were adopted for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2025, vehicles are required to achieve 54.5 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO2 per mile. According to the USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle.[12] In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

Issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020), the Safer Affordable Fuel-Efficient Vehicles Rule would maintain the CAFE and CO2 standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO2 standards for model year 2020 are 43.7 mpg and 204 grams of CO2 per mile for passenger cars and 31.3 mpg and 284 grams of CO2 per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012. This Rule also excludes CO2- equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.[13]

On May 12, 2021, the National Highway Traffic Safety Administration (NHTSA) published a notice of proposed rulemaking in the Federal Register, proposing to repeal "The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program," published Sept. 27, 2019 (SAFE I Rule), in which NHTSA codified regulatory text and made additional pronouncements regarding the preemption of state and local laws related to fuel economy standards. Specifically, this document proposes to fully repeal the regulatory text and appendices promulgated in the SAFE I Rule. In addition, this document proposes to repeal and withdraw the interpretative statements made by the Agency in the SAFE I Rule preamble, including those

[10] A green job, as defined by the United States Department of Labor, is a job in business that produces goods or provides services that benefit the environment or conserve natural resources.

[11] The Corporate Average Fuel Economy standards are regulations in the United States, first enacted by Congress in 1975, to improve the average fuel economy of cars and light trucks. The U.S Department of Transportation has delegated the National Highway Traffic Safety Administration as the regulatory agency for the Corporate Average Fuel Economy standards.

[12] United States Environmental Protection Agency, EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks, August 2012, https://nepis.epa.gov/Exe/ZyPDF.cgi/P100EZ7C.PDF?Dockey=P100EZ7C.PDF.

[13] National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks 2018. Available at: https://www.gpo.gov/fdsys/pkg/FR-2018-08-24/pdf/2018-16820.pdf.

regarding the preemption of particular state Greenhouse Gas (GHG) Emissions standards or Zero Emissions Vehicle (ZEV) mandates. As such, this document proposes to establish a clean slate with respect to NHTSA's regulations and interpretations concerning preemption under the Energy Policy and Conservation Act (EPCA).[14]

State of California

California Air Resources Board

CARB, a part of the California Environmental Protection Agency (CalEPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California. In this capacity, CARB conducts research, sets state ambient air quality standards (California Ambient Air Quality Standards [CAAQS]), compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In 2004, the California Air Resources Board (CARB) adopted an Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other toxic air contaminants (Title 13 California Code of Regulations [CCR], Section 2485). The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure generally does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given location with certain exemptions for equipment in which idling is a necessary function such as concrete trucks. While this measure primarily targets diesel particulate matter emissions, it has co-benefits of minimizing GHG emissions from unnecessary truck idling.

In 2008, CARB approved the Truck and Bus regulation to reduce particulate matter and nitrogen oxide emissions from existing diesel vehicles operating in California (13 CCR, Section 2025, subsection (h)). CARB has also promulgated emission standards for off-road diesel construction equipment of greater than 25 horsepower such as bulldozers, loaders, backhoes and forklifts, as well as many other self-propelled off-road diesel vehicles. The regulation, adopted by the CARB on July 26, 2007, aims to reduce emissions by installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. Refer to Section IV.B, *Air Quality*, of this Draft EIR for additional details regarding these regulations. While these regulations primarily target reductions in criteria air pollutant emission, they have co-benefits of minimizing GHG emissions due to improved engine efficiencies.

The State currently has no regulations that establish ambient air quality standards for GHGs. However, the State has passed laws directing CARB to develop actions to reduce GHG emissions, which are listed below.

Assembly Bill 1493

California Assembly Bill 1493 enacted on July 22, 2002, required the CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO_2 and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009.

[14] https://www.federalregister.gov/documents/2021/05/12/2021-08758/corporate-average-fuel-economy-cafe-preemption

Executive Order S-3-05

The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- By 2010, California shall reduce GHG emissions to 2000 levels;
- By 2020, California shall reduce GHG emissions to 1990 levels; and
- By 2050, California shall reduce GHG emissions to 80 percent below 1990 levels.

The Executive Order directed the secretary of the California Environmental Protection Agency (CalEPA) to coordinate a multi-agency effort to reduce GHG emissions to the target levels. To comply with the Executive Order, the secretary of CalEPA created the California Climate Action Team (CAT), made up of members from various state agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of businesses, local governments, and communities and through State incentive and regulatory programs.

Assembly Bill 32 (California Health and Safety Code, Division 25.5 – California Global Warming Solutions Act of 2006)

In 2006, the California State Legislature adopted Assembly Bill (AB) 32 (codified in the California Health and Safety Code [HSC], Division 25.5 – California Global Warming Solutions Act of 2006), which focuses on reducing GHG emissions in California to 1990 levels by 2020. HSC Division 25.5 defines GHGs as CO2, CH4, N2O, HFCs, PFCs, and SF6 and represents the first enforceable statewide program to limit emissions of these GHGs from all major industries with penalties for noncompliance. The law further requires that reduction measures be technologically feasible and cost effective. Under HSC Division 25.5, CARB has the primary responsibility for reducing GHG emissions. CARB is required to adopt rules and regulations directing state actions that would achieve GHG emissions reductions equivalent to 1990 statewide levels by 2020.

Senate Bill 32 and Assembly Bill 197

In 2016, the California State Legislature adopted Senate Bill (SB) 32 and its companion bill AB 197, and both were signed by Governor Brown. SB 32 and AB 197 amends HSC Division 25.5 and establishes a new climate pollution reduction target of 40 percent below 1990 levels by 2030 and includes provisions to ensure the benefits of state climate policies reach into disadvantaged communities.

Climate Change Scoping Plan (2008)

A specific requirement of AB 32 was to prepare a Climate Change Scoping Plan for achieving the maximum technologically feasible and cost-effective GHG emission reduction by 2020 (Health and Safety Code section 38561 (h)). CARB developed an AB 32 Scoping Plan that contains strategies to achieve the 2020 emissions cap. The initial Scoping Plan was approved in 2008, and contains a mix of recommended strategies that combined direct regulations, market-based approaches, voluntary measures, policies, and other emission reduction programs calculated to meet the 2020 statewide GHG emission limit and initiate the transformations needed to achieve the State's long-range climate objectives.

As required by HSC Division 25.5, CARB approved the 1990 GHG emissions inventory, thereby establishing the emissions limit for 2020. The 2020 emissions limit was originally set at 427 MMTCO2e using the GWP values from the IPCC SAR. CARB also projected the state's 2020 GHG emissions under no-action-taken (NAT) conditions – that is, emissions that would occur without any plans, policies, or regulations to reduce GHG emissions. CARB originally used an average of the state's GHG emissions from 2002 through 2004 and projected the 2020 levels at approximately 596 MMTCO2e (using GWP values from the IPCC SAR). Therefore, under the original projections, the state must reduce its 2020 NAT emissions by 28.4 percent in order to meet the 1990 target of 427 MMTCO2e.

First Update to the Climate Change Scoping Plan (2014)

The First Update to the Scoping Plan was approved by CARB in May 2014 and builds upon the initial Scoping Plan with new strategies and recommendations. In 2014, CARB revised the target using the GWP values from the IPCC AR4 and determined that the 1990 GHG emissions inventory and 2020 GHG emissions limit is 431 MMTCO2e. CARB also updated the State's 2020 NAT emissions estimate to account for the effect of the 2007–2009 economic recession, new estimates for future fuel and energy demand, and the reductions required by regulation that were recently adopted for motor vehicles and renewable energy. CARB's projected statewide 2020 emissions estimate using the GWP values from the IPCC AR4 is 509.4 MMTCO2e.

2017 Climate Change Scoping Plan

In response to the 2030 GHG reduction target, CARB adopted the 2017 Climate Change Scoping Plan at a public meeting held in December 2017. The 2017 Scoping Plan outlines the strategies the State will implement to achieve the 2030 GHG reduction target of 40 percent below 1990 levels. The 2017 Scoping Plan also addresses GHG emissions from natural and working lands of California, including the agriculture and forestry sectors. The 2017 Scoping Plan considered the Scoping Plan Scenario and four alternatives for achieving the required GHG reductions but ultimately selected the Scoping Plan Scenario.

CARB states that the Scoping Plan Scenario "is the best choice to achieve the State's climate and clean air goals."[15] Under the Scoping Plan Scenario, the majority of the reductions would result from the continuation of the Cap-and-Trade regulation. Additional reductions are achieved from electricity sector standards (i.e., utility providers to supply at least 50 percent renewable electricity by 2030), doubling the energy efficiency savings at end uses, additional reductions from the LCFS, implementing the short-lived GHG strategy (e.g., hydrofluorocarbons), and implementing the mobile source strategy and sustainable freight action plan. The alternatives were designed to consider various combinations of these programs, as well as consideration of a carbon tax in the event the Cap-and-Trade regulation is not continued. However, in July 2017, the California Legislature voted to extend the Cap-and-Trade regulation to 2030. Implementing this Scoping Plan will ensure that California's climate actions continue to promote innovation, drive the generation of new jobs, and achieve continued reductions of smog and air toxics. The ambitious approach draws on a decade of successful programs that address the major sources of climate-changing gases in every sector of the economy:

- More Clean Cars and Trucks: The plan sets out far-reaching programs to incentivize the sale of millions of zero-emission vehicles, drive the deployment of zero-emission trucks, and shift to a cleaner system of handling freight statewide.
- Increased Renewable Energy: California's electric utilities are ahead of schedule meeting the requirement that 33 percent of electricity come from renewable sources by 2020. The Scoping Plan guides utilities to 50 percent renewables, as required under SB 350.
- Slashing Super-Pollutants: The plan calls for a significant cut in super-pollutants such as methane and HFC refrigerants, which are responsible for as much as 40 percent of global warming.
- Cleaner Industry and Electricity: California's renewed cap-and-trade program extends the declining cap on emissions from utilities and industries and the carbon allowance auctions. The auctions will continue to fund investments in clean energy and efficiency, particularly in disadvantaged communities.
- Cleaner Fuels: The Low Carbon Fuel Standard will drive further development of cleaner, renewable transportation fuels to replace fossil fuels.
- Smart Community Planning: Local communities will continue developing plans which will further link transportation and housing policies to create sustainable communities.
- Improved Agriculture and Forests: The Scoping Plan also outlines innovative programs to account for and reduce emissions from agriculture, as well as forests and other natural lands.

[15] California Air Resources Board, California's 2017 Climate Change Scoping Plan, November 2017, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf

The 2017 Scoping Plan also evaluates reductions of smog-causing pollutants through California's climate programs.

SB 32, Pavley. California Global Warming Solutions Act of 2006

(5) The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to approve a statewide greenhouse gas emissions limit equivalent to the statewide greenhouse gas emissions level in 1990 to be achieved by 2020 and to adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective greenhouse gas emissions reductions. This bill would require the state board to ensure that statewide greenhouse gas emissions are reduced to 40% below the 1990 level by 2030.

(2) This bill would become operative only if AB 197 of the 2015–16 Regular Session is enacted and becomes effective on or before January 1, 2017. AB 197 requires that the California Air Resources Board, which directs implementation of emission-reduction programs, should target direct reductions at both stationary and mobile sources. AB 197 of the 2015-2016 Regular Session was approved on September 8, 2016.

Executive Order S-1-07

Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs the CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard and began implementation on January 1, 2011. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. CARB approved some amendments to the LCFS in December 2011, which were implemented on January 1, 2013. In September 2015, the Board approved the re-adoption of the LCFS, which became effective on January 1, 2016, to address procedural deficiencies in the way the original regulation was adopted. In 2018, the Board approved amendments to the regulation, which included strengthening and smoothing the carbon intensity benchmarks through 2030 in-line with California's 2030 GHG emission reduction target enacted through SB 32, adding new crediting opportunities to promote zero emission vehicle adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector.

The LCFS is designed to encourage the use of cleaner low-carbon transportation fuels in California, encourage the production of those fuels, and therefore, reduce GHG emissions and decrease petroleum dependence in the transportation sector. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

Senate Bill 97

Senate Bill 97 (SB 97) was adopted August 2007 and acknowledges that climate change is a prominent environmental issue that requires analysis under CEQA. SB 97 directed the Governor's Office of Planning and Research (OPR), which is part of the State Natural Resources Agency, to prepare, develop, and transmit to the CARB guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions, as required by CEQA, by July 1, 2009. The Natural Resources Agency was required to certify and adopt those guidelines by January 1, 2010.

Pursuant to the requirements of SB 97 as stated above, on December 30, 2009, the Natural Resources Agency adopted amendments to the state CEQA guidelines that address GHG emissions. The CEQA Guidelines Amendments changed 14 sections of the CEQA Guidelines and incorporate GHG language throughout the Guidelines. However, no GHG emissions thresholds of significance were provided and no specific mitigation measures were identified. The GHG emission reduction amendments went into effect on March 18, 2010, and are summarized below:

- Climate action plans and other greenhouse gas reduction plans can be used to determine whether a project has significant impacts, based upon its compliance with the plan.
- Local governments are encouraged to quantify the greenhouse gas emissions of proposed projects, noting that they have the freedom to select the models and methodologies that best meet their needs and circumstances. The section also recommends consideration of several qualitative factors that may be used in the determination of significance, such as the extent to which the given project complies with state, regional, or local GHG reduction plans and policies. OPR does not set or dictate specific thresholds of significance. Consistent with existing CEQA Guidelines, OPR encourages local governments to develop and publish their own thresholds of significance for GHG impacts assessment.
- When creating their own thresholds of significance, local governments may consider the thresholds of significance adopted or recommended by other public agencies or recommended by experts.
- New amendments include guidelines for determining methods to mitigate the effects of greenhouse gas emissions in Appendix F of the CEQA Guidelines.
- OPR is clear to state that "to qualify as mitigation, specific measures from an existing plan must be identified and incorporated into the project; general compliance with a plan, by itself, is not mitigation".
- OPR's emphasizes the advantages of analyzing GHG impacts on an institutional, programmatic level. OPR therefore approves tiering of environmental analyses and highlights some benefits of such an approach.
- Environmental impact reports (EIRs) must specifically consider a project's energy use and energy efficiency potential.

Senate Bill 100

Senate Bill 100 (SB 100) requires 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. SB 100 was adopted September 2018.

The interim thresholds from prior Senate Bills and Executive Orders would also remain in effect. These include Senate Bill 1078 (SB 1078), which requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) which changed the target date to 2010. Executive Order S-14-08, which was signed on November 2008 and expanded the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed the CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

Senate Bill 375

Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). The CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. The CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by the CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

Senate Bill X7-7

Senate Bill X7-7 (SB X7-7), enacted on November 9, 2009, mandates water conservation targets and efficiency improvements for urban and agricultural water suppliers. SB X7-7 requires the Department of Water Resources (DWR) to develop a task force and technical panel to develop alternative best management practices for the water sector. In addition, SB X7-7 required the DWR to develop criteria for baseline uses for residential, commercial, and industrial uses for both indoor and landscaped area uses. The DWR was also required to develop targets and regulations that achieve a statewide 20 percent reduction in water usage.

Assembly Bill 939 and Senate Bill 1374

Assembly Bill 939 (AB 939) requires that each jurisdiction in California to divert at least 50 percent of its waste away from landfills, whether through waste reduction, recycling or other means. Senate Bill 1374 (SB 1374) requires the California Integrated Waste Management Board to adopt a model ordinance by March 1, 2004, suitable for adoption by any local agency to require 50 to 75 percent diversion of construction and demolition of waste materials from landfills.

California Code of Regulations (CCR) Title 24, Part 6

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

The Energy Commission adopted 2008 Standards on April 23, 2008, and Building Standards Commission approved them for publication on September 11, 2008. These updates became effective on August 1, 2009. CalEEMod modeling defaults to 2008 standards. 2013 Standards were approved and have been effective since July 1, 2014. 2016 Standards were adopted January 1, 2017. 2019 standards were published July 1, 2019 and became effective January 1, 2020. All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are estimated to be approximately 30 percent more efficient than the 2016 standards.

Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

Per Section 100 Scope, the 2019 Title 24, Part 6 Building Code now requires healthcare facilities, such as assisted living facilities, hospitals, and nursing homes, to meet documentation requirements of Title 24, Part 1 Chapter 7 – Safety Standards for Health Facilities. A healthcare facility is defined as any building or portion thereof licensed pursuant to California Health and Safety Code Division 2, Chapter 1, Section 1204 or Chapter 2, Section 1250.

Section 120.1 Ventilation and Indoor Air Quality included both additions and revisions in the 2019 Code. This section now requires nonresidential and hotel/motel buildings to have air filtration systems that use forced air ducts to supply air to occupiable spaces to have air filters. Further, the air filter efficiency must be either MERV 13 or use a particle size efficiency rating specific in the Energy Code AND be equipped with air filters with a minimum 2-inch depth or minimum 1-inch depth if sized according to the equation 120.1-A. If natural ventilation is to be used the space must also use mechanical unless ventilation openings are either permanently open or controlled to stay open during occupied times. The 2019 version of the Code also completely revised the minimum ventilation requirements including DVC airflow rates within Section 120.1 Table 120.1–A. Table 120.1-A now includes air classification and recirculation limitations, these are based on either the number of occupants or the CFM/ft^2 (cubic feet per minute per square foot), whichever is greater.

Section 120.1 Ventilation and Indoor Air Quality also included additions for high-rise residential buildings. Requirements include that mechanical systems must provide air filters that and that air filters must be MERV 13 or use a particle size efficiency rating specified in the Energy Code. Window operation is no longer a method allowed to meet ventilation requirements, continuous operation of central forced air system handlers used in central fan integrated ventilation system is not a permissible method of providing the dwelling unit ventilation airflow, and central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow to each dwelling unit. In addition, requirements for kitchen range hoods were also provided in the updated Section 120.1.

Per Section 120.1(a) healthcare facilities must be ventilated in accordance with Chapter 4 of the California Mechanical Code and are NOT required to meet the ventilations requirements of Title 24, Part 6.

Section 140.4 Space Conditioning Systems included both additions and revisions within the 2019 Code. The changes provided new requirements for cooling tower efficiency, new chilled water-cooling system requirements, as well as new formulas for calculating allowed fan power. Section 140.4(n) also provide a new exception for mechanical system shut-offs for high-rise multifamily dwelling units, while Section 140.4(o) added new requirements for conditioned supply air being delivered to space with mechanical exhaust.

Section 120.6 Covered Processes added information in regards to adiabatic chiller requirements that included that all condenser fans for air-cooled converseness, evaporative-cooled condensers, adiabatic condensers, gas coolers, air or water fluid coolers or cooling towers must be continuously variable speed, with the speed of all fans serving a common condenser high side controlled in unison .Further, the mid-condensing setpoint must be 70 degrees Fahrenheit for all of the above mentioned systems.

New regulations were also adopted under Section 130.1 Indoor Lighting Controls. These included new exceptions being added for restrooms, the exception for classrooms being removed, as well as exceptions in regard to sunlight provided through skylights and overhangs.

Section 130.2 Outdoor Lighting Controls and Equipment added automatic scheduling controls which included that outdoor lighting power must be reduced by 50 to 90 percent, turn the lighting off during unoccupied times and have at least two scheduling options for each luminaire independent from each other and with a 2-hour override function. Furthermore, motion sensing controls must have the ability to reduce power within 15 minutes of area being vacant and be able to come back on again when occupied. An exception allows for lighting subject to a health or life safety statute, ordinance, or regulation may have a minimum time-out period

longer than 15 minutes or a minimum dimming level above 50% when necessary to comply with the applicable law.

California Code of Regulations (CCR) Title 24, Part 11 (California Green Building Standards)

On January 12, 2010, the State Building Standards Commission unanimously adopted updates to the California Green Building Standards Code, which went into effect on January 1, 2011.

2016 CALGreen Code: The 2016 residential standards are estimated to be approximately 28 percent more efficient than the 2013 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions. During the 2016-2017 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2015 Triennial Code Adoption Cycle.

HCD also increased the required construction waste reduction from 50 percent to 65 percent of the total building site waste. This increase aids in meeting CalRecycle's statewide solid waste recycling goal of 75 percent for 2020 as stated in Chapter 476, Statutes of 2011 (AB 341). HCD adopted new regulations requiring recycling areas for multifamily projects of five or more dwelling units. This regulation requires developers to provide readily accessible areas adequate in size to accommodate containers for depositing, storage and collection of non-hazardous materials (including organic waste) for recycling. This requirement assists businesses that were required as of April 1, 2016, to meet the requirements of Chapter 727, Statutes of 2014 (AB 1826).

HCD adopted new regulations to require information on photovoltaic systems and electric vehicle chargers to be included in operation and maintenance manuals. Currently, CALGreen section 4.410.1 Item 2(a) requires operation and maintenance instructions for equipment and appliances. Photovoltaic systems and electric vehicle chargers are systems that play an important role in many households in California, and their importance is increasing every day. HCD incorporated these two terms in the existing language in order to provide clarity to code users as to additional systems requiring operation and maintenance instructions.

HCD updated the reference to Clean Air Standards of the United States Environmental Protection Agency applicable to woodstoves and pellet stoves. HCD also adopted a new requirement for woodstoves and pellet stoves to have a permanent label indicating they are certified to meet the emission limits. This requirement provides clarity to the code user and is consistent with the United States Environmental Protection Agency's New Source Performance Standards. HCD updated the list of standards which can be used for verification of compliance for exterior grade composite wood products. This list now includes four standards from the Canadian Standards Association (CSA): CSA O121, CSA O151, CSA O153 and CSA O325. HCD updated heating and air-conditioning system design references to the ANSI/ACCA 2 Manual J, ANSI/ACCA 1 Manual D, and ANSI/ACCA 3 Manual S to the most recent versions approved by ANSI. HCD adopted a new elective measure for hot water recirculation systems for water conservation. The United States Department of Energy estimates that 3,600 to 12,000 gallons of water per year can be saved by the typical household (with four points of hot water use) if a hot water recirculation system is installed.

2019 CALGreen Code: During the 2019-2020 fiscal year, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle.

HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of postconstruction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regard to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regard to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Some updates were also made in regard to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regard to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13. MERV 13 filters are to be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Executive Order B-30-15

On April 29, 2015, Governor Brown issued Executive Order B-30-15. Therein, the Governor directed the following:

- Established a new interim statewide reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030.
- Ordered all state agencies with jurisdiction over sources of GHG emissions to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 reduction targets.
- Directed CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

Executive Order B-29-15

Executive Order B-29-15, mandates a statewide 25 percent reduction in potable water usage. EO B-29-15 signed into law on April 1, 2015.

Executive Order B-37-16

Executive Order B-37-16, continuing the State's adopted water reductions, was signed into law on May 9, 2016. The water reductions build off the mandatory 25 percent reduction called for in EO B-29-15.

Executive Order N-79-20

Executive Order N-79-20 Signed in September 2020, Executive Order N-79-20 establishes as a goal that where feasible, all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035. The executive order sets a similar goal

requiring that all medium and heavy-duty vehicles will be zero-emission by 2045 where feasible. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new zero emission vehicles (ZEVs) "towards the target of 100 percent." The executive order directs the California Environmental Protection Agency, the California Geologic Energy Management Division (CalGEM), and the California Natural Resources Agency to transition and repurpose oil production facilities with a goal toward meeting carbon neutrality by 2045. Executive Order N-79-20 builds upon the CARB Advanced Clean Trucks regulation, which was adopted by CARB in July 2020.

SBX1 2

Signed into law in April 2011, SBX1 2, requires one-third of the State's electricity to come from renewable sources. The legislation increases California's current 20 percent renewables portfolio standard target in 2010 to a 33 percent renewables portfolio standard by December 31, 2020.

Senate Bill 350

Signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

Energy Sector and CEQA Guidelines Appendix F

The CEC first adopted Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR, Title 24, Part 6) in 1978 in response to a legislative mandate to reduce energy consumption in the state. Although not originally intended to reduce GHG emissions, increased energy efficiency and reduced consumption of electricity, natural gas, and other fuels would result in fewer GHG emissions from residential and nonresidential buildings subject to the standard. The standards are updated periodically (typically every three years) to allow for the consideration and inclusion of new energy efficiency technologies and methods. The 2016 update to the Energy Efficiency Standards for Residential and Nonresidential Buildings focuses on several key areas to improve the energy efficiency of renovations and addition to existing buildings as well as newly constructed buildings and renovations and additions to existing buildings. The major efficiency improvements to the residential Standards involve improvements for attics, walls, water heating, and lighting, whereas the major efficiency improvements to the nonresidential Standards include alignment with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 90.1-2013 national standards. Furthermore, the 2016 update requires that enforcement agencies determine compliance with CCR, Title 24, Part 6 before issuing building permits for any construction.[16]

Part 11 of the Title 24 Building Energy Efficiency Standards is referred to as the California Green Building Standards (CALGreen) Code. The purpose of the CALGreen Code is to "improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in the following categories: (1) Planning and design; (2) Energy efficiency; (3) Water efficiency and conservation; (4) Material conservation and resource efficiency; and (5) Environmental air quality."17 As of January 1, 2011, the CALGreen Code is mandatory for all new buildings constructed in the state. The

[16] California Energy Commission, 2016 Building Energy Efficiency Standards, June 2015, http://www.energy.ca.gov/2015publications/CEC-400-2015-037/CEC-400-2015-037-CMF.pdf

[17] California Building Standards Commission, 2010 California Green Building Standards Code, (2010).

CALGreen Code establishes mandatory measures for new residential and non-residential buildings. Such mandatory measures include energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. The CALGreen Code was most recently updated in 2019 to include new mandatory measures for residential and nonresidential uses; the new measures took effect on January 1, 2020.

Regional – South Coast Air Quality Management District

The project is within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD).

SCAQMD Regulation XXVII, Climate Change

SCAQMD Regulation XXVII currently includes three rules:

- The purpose of Rule 2700 is to define terms and post global warming potentials.
- The purpose of Rule 2701, SoCal Climate Solutions Exchange, is to establish a voluntary program to encourage, quantify, and certify voluntary, high quality certified greenhouse gas emission reductions in the SCAQMD.
- Rule 2702, Greenhouse Gas Reduction Program, was adopted on February 6, 2009. The purpose of this rule is to create a Greenhouse Gas Reduction Program for greenhouse gas emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

A variety of agencies have developed greenhouse gas emission thresholds and/or have made recommendations for how to identify a threshold. However, the thresholds for projects in the jurisdiction of the SCAQMD remain in flux. The California Air Pollution Control Officers Association explored a variety of threshold approaches but did not recommend one approach (2008). The ARB recommended approaches for setting interim significance thresholds (California Air Resources Board 2008b), in which a draft industrial project threshold suggests that non-transportation related emissions under 7,000 MTCO2e per year would be less than significant; however, the ARB has not approved those thresholds and has not published anything since then. The SCAQMD is in the process of developing thresholds, as discussed below.

SCAQMD Threshold Development

On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD permit threshold). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the proposed project.

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration ("SCAQMD draft local agency threshold"); however, the SCAQMD Board has not approved the thresholds as of the date of the Notice of Preparation. The current draft thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are

added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:
    - All land use types: 3,000 MTCO2e per year
    - Based on land use type: residential: 3,500 MTCO2e per year; commercial: 1,400 MTCO2e per year; or mixed use: 3,000 MTCO2e per year.
    - Based on land type: Industrial (where SCAQMD is the lead agency), 10,000 MTCO2e per year.
- Tier 4 has the following options:
    - Option 1: Reduce emissions from business as usual (BAU) by a certain percentage; this percentage is currently undefined.
    - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
    - Option 3, 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO2e/SP/year for projects and 6.6 MTCO2e/SP/year for plans;
    - Option 3, 2035 target: 3.0 MTCO2e/SP/year for projects and 4.1 MTCO2e/SP/year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. Specifically, the Tier 3 screening level for stationary sources is based on an emission capture rate of 90 percent for all new or modified projects. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to a CEQA analysis, including a negative declaration, a mitigated negative declaration, or an environmental impact report, which includes analyzing feasible alternatives and imposing feasible mitigation measures. A GHG significance threshold based on a 90 percent emission capture rate may be more appropriate to address the long-term adverse impacts associated with global climate change because most projects will be required to implement GHG reduction measures. Further, a 90 percent emission capture rate sets the emission threshold low enough to capture a substantial fraction of future stationary source projects that will be constructed to accommodate future statewide population and economic growth, while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions. This assertion is based on the fact that staff estimates that these GHG emissions would account for slightly less than one percent of future 2050 statewide GHG emissions target (85 MMTCO2eq/year). In addition, these small projects may be subject to future applicable GHG control regulations that would further reduce their overall future contribution to the statewide GHG inventory. Finally, these small sources are already subject to BACT for criteria pollutants and are more likely to be single-permit facilities, so they are more likely to have few opportunities readily available to reduce GHG emissions from other parts of their facility.

SCAQMD Working Group

Since neither the CARB nor the OPR has developed GHG emissions threshold, the SCAQMD formed a Working Group to develop significance thresholds related to GHG emissions. At the September 28, 2010 Working Group meeting, the SCAQMD released its most current version of the draft GHG emissions thresholds, which recommends a tiered approach that provides a quantitative annual threshold of 10,000 MTCO2e for industrial uses.

In order to assist local agencies with direction on GHG emissions, the SCAQMD organized a working group and adopted Rules 2700, 2701, 2702, and 3002 which are described below.

SCAQMD Rules 2700 and 2701

The SCAQMD adopted Rules 2700 and 2701 on December 5, 2008, which establishes the administrative structure for a voluntary program designed to quantify GHG emission reductions. Rule 2700 establishes definitions for the various terms used in Regulation XXVII – Global Climate Change. Rule 2701 provides specific protocols for private parties to follow to generate certified GHG emission reductions for projects

within the district. Approved protocols include forest projects, urban tree planting, and manure management. The SCAQMD is currently developing additional protocols for other reduction measures. For a GHG emission reduction project to qualify, it must be verified and certified by the SCAQMD Executive Officer, who has 60 days to approve or deny the Plan to reduce GHG emissions. Upon approval of the Plan, the Executive Officer issues required to issue a certified receipt of the GHG emission reductions within 90 days.

SCAQMD Rule 2702

The SCAQMD adopted Rule 2702 on February 6, 2009, which establishes a voluntary air quality investment program from which SCAQMD can collect funds from parties that desire certified GHG emission reductions, pool those funds, and use them to purchase or fund GHG emission reduction projects within two years, unless extended by the Governing Board. Priority will be given to projects that result in co-benefit emission reductions of GHG emissions and criteria or toxic air pollutants within environmental justice areas. Further, this voluntary program may compete with the cap-and-trade program identified for implementation in CARB's Scoping Plan, or a federal cap and trade program.

SCAQMD Rule 3002

The SCAQMD amended Rule 3002 on November 5, 2010 to include facilities that emit greater than 100,000 tons per year of CO_2e are required to apply for a Title V permit by July 1, 2011. A Title V permit is for facilities that are considered major sources of emissions.

Local – City of Torrance

In December 2017, the City of Torrance adopted the City of Torrance Climate Action Plan (CAP). The Climate Action Plan is a guide which sets greenhouse gas emission reduction goals and establishes strategies to achieve these outcomes. The strategies included in the CAP are voluntary, however the City has committed to the targets outlined in the CAP. The CAP identifies community-wide strategies to lower GHG emissions from a range of sources within the jurisdiction, including transportation, land use, energy generation and consumption, water, and waste. The CAP reduction targets are consistent with California's AB 32 goals and will help the State meet its long-term goal of 80 percent below 1990 levels by 2050. The City's reduction targets include a 15 percent reduction from 2005 levels by 2020 and a 49 percent reduction from 2005 levels by 2035.

SIGNIFICANCE THRESHOLDS

Appendix G of State CEQA Guidelines

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project;
- The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.[18]

[18] The Governor's Office of Planning and Research recommendations include a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an EIR must be prepared for the project.

Thresholds of Significance for this Project

To determine whether the project's GHG emissions are significant, this analysis uses the SCAQMD draft tier 3 screening threshold of 3,000 MTCO2e per year for all land uses.

METHODOLOGY

The proposed project is anticipated to generate GHG emissions from area sources, energy usage, mobile sources, waste, water, and construction equipment. The following provides the methodology used to calculate the project-related GHG emissions and the project impacts.

CalEEMod Version 2022.1 was used to calculate the GHG emissions from the proposed project. The CalEEMod Output for year 2024 is available in Appendix B. Each source of GHG emissions is described in greater detail below.

Area Sources

Area sources include emissions from consumer products, landscape equipment and architectural coatings. No changes were made to the default area source emissions.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the TIA into the CalEEMod Model. The program then applies the emission factors for each trip which is provided by the EMFAC2021 model to determine the vehicular traffic pollutant emissions. See Section 2 for details.

Waste

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. AB 341 required that 75 percent of waste be diverted from landfills by 2020. No changes were made to the default waste parameters.

Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. CALGreen standards require that indoor water use be reduced by 20 percent. The project is also required to use water-efficient irrigation. No changes were made to the default water usage parameters.

Construction

The construction-related GHG emissions were also included in the analysis and were based on a 30-year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod and are detailed above.

PROJECT GREENHOUSE GAS EMISSIONS

The GHG emissions have been calculated based on the parameters described above. A summary of the results is shown below in Table 22 and the CalEEMod Model run for the proposed project is provided in Appendix B. Table 22 shows that the total for the proposed project's emissions (without credit for any reductions from sustainable design and/or regulatory requirements) would be 2,426.80 MTCO2e per year. According to the thresholds of significance established above, a cumulative global climate change impact would occur if the GHG emissions created from the on-going operations of the proposed project would exceed the SCAQMD draft threshold of 3,000 $MTCO_2e$ per year for all land uses. Therefore, as the total emissions for the proposed project would not exceed the SCAQMD draft screening threshold of 3,000 MTCO2e per year, the proposed project would not create a significant cumulative impact to global climate change.

Table 22
Project-Related Greenhouse Gas Emissions

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO_2	CO_2	CH_4	N_2O	CO_2e
Maximum Annual Operations	48.50	1,812.00	1,860.50	5.06	0.07	2,392.00
Construction[1]	0.00	34.10	34.10	0.00	0.00	34.80
Total Emissions	48.50	1,846.10	1,894.60	5.06	0.07	2,426.80
SCAQMD Draft Screening Threshold						3,000
Exceeds Threshold?						**No**

Notes:

Source: CalEEMod Version 2022.1 for Opening Year 2024.

(1) Construction GHG emissions CO2e based on a 30 year amortization rate.

CONSISTENCY WITH APPLICABLE GREENHOUSE GAS REDUCTION PLANS AND POLICIES

The proposed project could have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. As stated previously, the applicable plan for the proposed project is the City of Torrance Climate Action Plan. The City of Torrance has selected goals to reduce its community GHG emissions to a level that is 15 percent below its 2005 GHG emissions level by 2020 and 49 percent below its 2005 levels by 2035.

As stated previously, the SCAQMD's tier 3 thresholds used Executive Order S-3-05 goal as the basis for deriving the screening level. The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels
- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

In 2006, the California State Legislature adopted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which was phased in starting in 2012.

Therefore, as the project's emissions meet the threshold for compliance with Executive Order S-3-05, the project's emissions also comply with the goals of AB 32 and the City of Torrance Climate Action Plan. Additionally, as the project meets the current interim emissions targets/thresholds established by SCAQMD, the project would also be on track to meet the reduction target of 40 percent below 1990 levels by 2030 mandated by SB-32. Furthermore, the majority of the post 2020 reductions in GHG emissions are addressed via regulatory requirements at the State level and the project will be required to comply with these regulations as they come into effect.

At a level of 2,426.80 MTCO2e per year, the project's GHG emissions do not exceed the SCAQMD draft threshold of 3,000 $MTCO_2e$ per year and is in compliance with the goals of the City of Torrance Climate Action Plan, AB-32 and SB-32. Furthermore, the project will comply with applicable Green Building Standards and City of Torrance's policies regarding sustainability (as dictated by the City's General Plan). Impacts are considered to be less than significant.

CUMULATIVE GREENHOUSE GAS IMPACTS

Although the project is expected to emit GHGs, the emission of GHGs by a single project into the atmosphere is not itself necessarily an adverse environmental effect. Rather, it is the increased accumulation of GHG from more than one project and many sources in the atmosphere that may result in global climate change. Therefore, in the case of global climate change, the proximity of the project to other GHG emission generating activities is not directly relevant to the determination of a cumulative impact because climate change is a global condition. According to CAPCOA, "GHG impacts are exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective."[19] The resultant consequences of that climate change can cause adverse environmental effects. A project's GHG emissions typically would be very small in comparison to state or global GHG emissions and, consequently, they would, in isolation, have no significant direct impact on climate change.

The state has mandated a goal of reducing statewide emissions to 1990 levels by 2020, even though statewide population and commerce are predicted to continue to expand. In order to achieve this goal, CARB is in the process of establishing and implementing regulations to reduce statewide GHG emissions. Consistent with CEQA Guidelines Section 15064h(3),[20] the City, as lead agency, has determined that the project's contribution to cumulative GHG emissions and global climate change would be less than significant if the project is consistent with the applicable regulatory plans and policies to reduce GHG emissions.

As discussed in the "Consistency With Applicable Greenhouse Gas Reduction Plans and Policies" section above, the project is consistent with the goals and objectives of the City of Torrance Climate Action Plan.

Thus, given the project's consistency with the SCAQMD's 3,000 MTCO2e per year draft threshold for all land uses, the project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of GHGs. Given this consistency, it is concluded that the project's incremental contribution to greenhouse gas emissions and their effects on climate change would not be cumulatively considerable.

[19] Source: California Air Pollution Control Officers Association, CEQA & Climate change: Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act, (2008).

[20] The State CEQA Guidelines were amended in response to SB 97. In particular, the State CEQA Guidelines were amended to specify that compliance with a GHG emissions reduction program renders a cumulative impact insignificant. Per State CEQA Guidelines Section 15064(h)(3), a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project will comply with an approved plan or mitigation program that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area of the project. To qualify, such a plan or program must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency. Examples of such programs include a "water quality control plan, air quality attainment or maintenance plan, integrated waste management plan, habitat conservation plan, natural community conservation plan, [and] plans or regulations for the reduction of greenhouse gas emissions."

5. ENERGY ANALYSIS

EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the project area and region.

Overview

California's estimated annual energy use as of 2020 included:

Approximately 272,576 gigawatt hours of electricity;[21]
Approximately 2,074,302 million cubic feet of natural gas per year;[22] and
Approximately 23.2 billion gallons of transportation fuel (for the year 2015).[23]

As of 2019, the year of most recent data currently available by the United States Energy Information Administration (EIA), energy use in California by demand sector was:

- Approximately 39.3 percent transportation;
- Approximately 23.2 percent industrial;
- Approximately 18.7 percent residential; and
- Approximately 18.9 percent commercial.[24]

California's electricity in-state generation system generates approximately 190,913 gigawatt -hours each year. In 2020, California produced approximately 70 percent of the electricity it uses; the rest was imported from the Pacific Northwest (approximately 15 percent) and the U.S. Southwest (approximately 15 percent). Natural gas is the main source for electricity generation at approximately 48.34 percent of the total in-state electric generation system power as shown in Table 23.

A summary of and context for energy consumption and energy demands within the State is presented in "U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts" excerpted below:

- California was the seventh-largest producer of crude oil among the 50 states in 2018, and, as of January 2019, it ranked third in oil refining capacity.
- California is the largest consumer of jet fuel among the 50 states and accounted for one-fifth of the nation's jet fuel consumption in 2018.
- California's total energy consumption is the second-highest in the nation, but, in 2018, the State's per capita energy consumption ranked the fourth-lowest, due in part to its mild climate and its energy efficiency programs.
- In 2018, California ranked first in the nation as a producer of electricity from solar, geothermal, and biomass resources and fourth in the nation in conventional hydroelectric power generation.

[21] California Energy Commission. Energy Almanac. Total Electric Generation. [Online] 2021. https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation

[22] Natural Gas Consumption by End Use. U.S. Energy Information Administration. [Online] October 18, 2021. https://www.eia.gov/dnav/ng/ng_cons_sum_dcu_SCA_a.htm.

[23] California Energy Commission. Revised Transportation Energy Demand Forecast 2018-2030. [Online] April 19, 2018. https://www.energy.ca.gov/assessments/

[24] U.S. Energy Information Administration. California Energy Consumption by End-Use Sector. California State Profile and Energy Estimates.[Online] January 16, 2020 https://www.eia.gov/state/?sid=CA#tabs-2

- In 2018, large- and small-scale solar PV and solar thermal installations provided 19% of California's net electricity generation.[25]

As indicated above, California is one of the nation's leading energy-producing states, and California per capita energy use is among the nation's most efficient. Given the nature of the proposed project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the project—namely, electricity and natural gas, and transportation fuel for vehicle trips associated with the proposed project.

Electricity

Electricity would be provided to the project by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons, within a service area encompassing approximately 50,000 square miles.[26] SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers.[27]

Table 24 identifies SCE's specific proportional shares of electricity sources in 2020. As shown in Table 24, the 2020 SCE Power has renewable energy at 30.9 percent of the overall energy resources, of which biomass and waste is at 0.1 percent, geothermal is at 5.5 percent, eligible hydroelectric is at 0.8 percent, solar energy is at 15.1 percent, and wind power is at 9.4 percent; other energy sources include large hydroelectric at 3.3 percent, natural gas at 15.2 percent, nuclear at 8.4 percent, other at 0.3 percent, and unspecified sources at 42 percent.

Natural Gas

Natural gas would be provided to the project by Southern California Gas (SoCalGas). The following summary of natural gas resources and service providers, delivery systems, and associated regulation is excerpted from information provided by the California Public Utilities Commission (CPUC).

The CPUC regulates natural gas utility service for approximately 11 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller investor-owned natural gas utilities. The CPUC also regulates independent storage operators Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

The vast majority of California's natural gas customers are residential and small commercial customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.

The PUC regulates the California utilities' natural gas rates and natural gas services, including in-state transportation over the utilities' transmission and distribution pipeline systems, storage, procurement, metering and billing.

Most of the natural gas used in California comes from out-of-state natural gas basins. In 2017, for example, California utility customers received 38% of their natural gas supply from basins located in the U.S. Southwest, 27% from Canada, 27% from the U.S. Rocky Mountain area, and 8% from production located in California."[28]

[25] State Profile and Energy Estimates. Independent Statistics and Analysis. [Online] [Cited: January 16, 2020.] http://www.eia.gov/state/?sid=CA#tabs2.

[26] https://www.sce.com/about-us/who-we-are/leadership/our-service-territory

[27] California Energy Commission. Utility Energy Supply plans from 2015. https://www.energy.ca.gov/almanac/electricity_data/supply_forms.html

[28] California Public Utilities Commission. Natural Gas and California. http://www.cpuc.ca.gov/natural_gas/

Transportation Energy Resources

The project would attract additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. Gasoline (and other vehicle fuels) are commercially-provided commodities and would be available to the project patrons and employees via commercial outlets.

The most recent data available shows the transportation sector emits 40 percent of the total greenhouse gases in the state and about 84 percent of smog-forming oxides of nitrogen (NOx).[29,30] About 28 percent of total United States energy consumption in 2019 was for transporting people and goods from one place to another. In 2019, petroleum comprised about 91 percent of all transportation energy use, excluding fuel consumed for aviation and most marine vessels.[31] In 2020, about 123.49 billion gallons (or about 2.94 billion barrels) of finished motor gasoline were consumed in the United States, an average of about 337 million gallons (or about 8.03 million barrels) per day.[32]

REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency are three federal agencies with substantial influence over energy policies and programs. On the state level, the PUC and the California Energy Commissions (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below.

Federal Regulations

Corporate Average Fuel Economy (CAFE) Standards

First established by the U.S. Congress in 1975, the Corporate Average Fuel Economy (CAFE) standards reduce energy consumption by increasing the fuel economy of cars and light trucks. The National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA) jointly administer the CAFE standards. The U.S. Congress has specified that CAFE standards must be set at the "maximum feasible level" with consideration given for: (1) technological feasibility; (2) economic practicality; (3) effect of other standards on fuel economy; and (4) need for the nation to conserve energy.[33]

Issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020), the Safer Affordable Fuel-Efficient Vehicles Rule would maintain the CAFE and CO2 standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO2 standards for model year 2020 are 43.7 mpg and 204 grams of CO2 per mile for passenger cars and 31.3 mpg and 284 grams of CO2 per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012.[34]

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[29] CARB. California Greenhouse Gas Emissions Inventory – 2020 Edition. https://www.arb.ca.gov/cc/inventory/data/data.htm

[30] CARB. 2016 SIP Emission Projection Data. https://www.arb.ca.gov/app/emsinv/2017/emseic1_query.php?F_DIV=-4&F_YR=2012&F_SEASON=A&SP=SIP105ADJ&F_AREA=CA

[31] US Energy Information Administration. Use of Energy in the United States Explained: Energy Use for Transportation. https://www.eia.gov/energyexplained/?page=us_energy_transportation

[32] https://www.eia.gov/tools/faqs/faq.php?id=23&t=10

[33] https://www.nhtsa.gov/lawsregulations/corporate-average-fuel-economy.

[34] National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks 2018. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/safer-affordable-fuel-efficient-safe-vehicles-final-rule.

Intermodal Surface transportation Efficiency Act of 1991 (ISTEA)

The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) promoted the development of intermodal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

The Transportation Equity Act of the 21st Century (TEA-21)

The Transportation Equity Act for the 21st Century (TEA-21) was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety.

State Regulations

Integrated Energy Policy Report (IEPR)

Senate Bill 1389 requires the California Energy Commission (CEC) to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the State's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety. The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2019 Integrated Energy Policy Report (2019 IEPR) was adopted February 20, 2020, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2019 IEPR focuses on a variety of topics such as decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecast, and the California Energy Demand Forecast.[35]

State of California Energy Plan

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access.

[35] California Energy Commission. Final 2019 Integrated Energy Policy Report. February 20, 2020. https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2019-integrated-energy-policy-report

California Building Standards Code (Title 24)

The California Building Standards Code Title 24 was previously discussed in Section 3 of this report.

California Building Energy Efficiency Standards (Title 24, Part 6)

The California Building Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations, Title 24, Part 6) were adopted to ensure that building construction and system design and installation achieve energy efficiency and preserve outdoor and indoor environmental quality. The current California Building Energy Efficiency Standards (Title 24 standards) are the 2019 Title 24 standards, which became effective on January 1, 2020. The 2019 Title 24 standards include efficiency improvements to the lighting and efficiency improvements to the non-residential standards include alignment with the American Society of Heating and Air-Conditioning Engineers. For example, window operation is no longer a method allowed to meet ventilation requirements, continuous operation of central forced air system handlers used in central fan integrated ventilation system is not a permissible method of providing the dwelling unit ventilation airflow, and central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow to each dwelling unit. In addition, requirements for kitchen range hoods were also provided in the updated Section 120.1. Ventilation and Indoor Air Quality included both additions and revisions in the 2019 Code. This section now requires nonresidential and hotel/motel buildings to have air filtration systems that use forced air ducts to supply air to occupiable spaces to have air filters. Further, the air filter efficiency must be either MERV 13 or use a particle size efficiency rating specific in the Energy Code AND be equipped with air filters with a minimum 2-inch depth or minimum 1-inch depth if sized according to the equation 120.1-A. If natural ventilation is to be used the space must also use mechanical unless ventilation openings are either permanently open or controlled to stay open during occupied times.

New regulations were also adopted under Section 130.1 Indoor Lighting Controls. These included new exceptions being added for restrooms, the exception for classrooms being removed, as well as exceptions in regard to sunlight provided through skylights and overhangs.

All buildings for which an application for a building permit is submitted on or after January 1, 2020 must follow the 2019 standards. The 2016 residential standards were estimated to be approximately 28 percent more efficient than the 2013 standards, whereas the 2019 residential standards are estimated to be approximately 7 percent more efficient than the 2016 standards. Furthermore, once rooftop solar electricity generation is factored in, 2019 residential standards are estimated to be approximately 53 percent more efficient than the 2016 standards. Under the 2019 standards, nonresidential buildings are estimated to be approximately 30 percent more efficient than the 2016 standards. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas emissions.

California Building Energy Efficiency Standards (Title 24, Part 11)

The 2019 California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, went into effect on January 1, 2020. The 2019 CALGreen Code includes mandatory measures for non-residential development related to site development; energy efficiency; water efficiency and conservation; material conservation and resource efficiency; and environmental quality.

As previously discussed in Section 4 of this report, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle. HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb one or more acres of land. This section requires projects that disturb one acre or more of land or less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirement detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board. The NPDES permits require postconstruction

runoff (post-project hydrology) to match the preconstruction runoff pre-project hydrology) with installation of postconstruction stormwater management measures.

HCD added sections 5.106.4.1.3 and 5.106.4.1.5 in regard to bicycle parking. Section 5.106.4.1.3 requires new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. In addition, Section 5.106.4.1.5 states that acceptable bicycle parking facility for Sections 5.106.4.1.2 through 5.106.4.1.4 shall be convenient from the street and shall meeting one of the following: (1) covered, lockable enclosures with permanently anchored racks for bicycles; (2) lockable bicycle rooms with permanently anchored racks; or (3) lockable, permanently anchored bicycle lockers.

HCD amended section 5.106.5.3.5 allowing future charging spaces to qualify as designated parking for clean air vehicles.

HCD updated section 5.303.3.3 in regard to showerhead flow rates. This update reduced the flow rate to 1.8 GPM.

HCD amended section 5.304.1 for outdoor potable water use in landscape areas and repealed sections 5.304.2 and 5.304.3. The update requires nonresidential developments to comply with a local water efficient landscape ordinance or the current California Department of Water Resource's' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Some updates were also made in regard to the outdoor potable water use in landscape areas for public schools and community colleges.

HCD updated Section 5.504.5.3 in regard to the use of MERV filters in mechanically ventilated buildings. This update changed the filter use from MERV 8 to MERV 13. MERV 13 filters are to be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Senate Bill 100

Senate Bill 100 (SB 100) requires 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. SB 100 was adopted September 2018.

The interim thresholds from prior Senate Bills and Executive Orders would also remain in effect. These include Senate Bill 1078 (SB 1078), which requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. Senate Bill 107 (SB 107) which changed the target date to 2010. Executive Order S-14-08, which was signed on November 2008 and expanded the State's Renewable Energy Standard to 33 percent renewable energy by 2020. Executive Order S-21-09 directed the CARB to adopt regulations by July 31, 2010 to enforce S-14-08. Senate Bill X1-2 codifies the 33 percent renewable energy requirement by 2020.

Senate Bill 350

As previously discussed in Section 4 of this report, Senate Bill 350 (SB 350) was signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

Assembly Bill 32

As discussed in Section 4 of this report, in 2006 the California State Legislature adopted Assembly Bill 32 (AB 32), the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which will be phased in starting in 2012. Emission reductions shall include carbon sequestration projects that would remove carbon from the atmosphere and best management practices that are technologically feasible and cost effective. Please see Section 3 for further detail on AB 32.

Assembly Bill 1493/Pavley Regulations

As discussed in Section 4 of this report, California Assembly Bill 1493 enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO_2 and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009. Although aimed at reducing GHG emissions, specifically, a co-benefit of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

Executive Order S-1-07/Low Carbon Fuel Standard

As discussed in Section 4 of this report, Executive Order S-1-07 was issued in 2007 and proclaims that the transportation sector is the main source of GHG emissions in the State, since it generates more than 40 percent of the State's GHG emissions. It establishes a goal to reduce the carbon intensity of transportation fuels sold in the State by at least ten percent by 2020. This Order also directs CARB to determine whether this Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

On April 23, 2009 CARB approved the proposed regulation to implement the low carbon fuel standard. The low carbon fuel standard is anticipated to reduce GHG emissions by about 16 MMT per year by 2020. The low carbon fuel standard is designed to provide a framework that uses market mechanisms to spur the steady introduction of lower carbon fuels. The framework establishes performance standards that fuel producers and importers must meet each year beginning in 2011. Separate standards are established for gasoline and diesel fuels and the alternative fuels that can replace each. The standards are "back-loaded", with more reductions required in the last five years, than during the first five years. This schedule allows for the development of advanced fuels that are lower in carbon than today's fuels and the market penetration of plug-in hybrid electric vehicles, battery electric vehicles, fuel cell vehicles, and flexible fuel vehicles. It is anticipated that compliance with the low carbon fuel standard will be based on a combination of both lower carbon fuels and more efficient vehicles.

Reformulated gasoline mixed with corn-derived ethanol at ten percent by volume and low sulfur diesel fuel represent the baseline fuels. Lower carbon fuels may be ethanol, biodiesel, renewable diesel, or blends of these fuels with gasoline or diesel as appropriate. Compressed natural gas and liquefied natural gas also may be low carbon fuels. Hydrogen and electricity, when used in fuel cells or electric vehicles are also considered as low carbon fuels for the low carbon fuel standard.

California Air Resources Board

CARB's Advanced Clean Cars Program

Closely associated with the Pavley regulations, the Advanced Clean Cars emissions control program was approved by CARB in 2012. The program combines the control of smog, soot, and GHGs with requirements

for greater numbers of zero-emission vehicles for model years 2015–2025.15 The components of the Advanced Clean Cars program include the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years.[36]

Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling

The Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling (Title 13, California Code of Regulations, Division 3, Chapter 10, Section 2435) was adopted to reduce public exposure to diesel particulate matter and other air contaminants by limiting the idling of diesel-fueled commercial motor vehicles. This section applies to diesel-fueled commercial motor vehicles with gross vehicular weight ratings of greater than 10,000 pounds that are or must be licensed for operation on highways. Reducing idling of diesel-fueled commercial motor vehicles reduces the amount of petroleum-based fuel used by the vehicle.

Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen, and other Criteria Pollutants, form In-Use Heavy-Duty Diesel-Fueled Vehicles

The Regulation to Reduce Emissions of Diesel Particulate Matter, Oxides of Nitrogen and other Criteria Pollutants, from In-Use Heavy-Duty Diesel-Fueled Vehicles (Title 13, California Code of Regulations, Division 3, Chapter 1, Section 2025) was adopted to reduce emissions of diesel particulate matter, oxides of nitrogen (NOX) and other criteria pollutants from in-use diesel-fueled vehicles. This regulation is phased, with full implementation by 2023. The regulation aims to reduce emissions by requiring the installation of diesel soot filters and encouraging the retirement, replacement, or repower of older, dirtier engines with newer emission-controlled models. The newer emission-controlled models would use petroleum-based fuel in a more efficient manner.

Sustainable Communities Strategy

The Sustainable Communities and Climate Protection Act of 2008, or Senate Bill 375 (SB 375), coordinates land use planning, regional transportation plans, and funding priorities to help California meet the GHG reduction mandates established in AB 32.

As previously stated in Section 4 of this report, Senate Bill 375 (SB 375) was adopted September 2008 and aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires Metropolitan Planning Organizations (MPO) to adopt a sustainable communities strategy (SCS) or alternate planning strategy (APS) that will prescribe land use allocation in that MPOs Regional Transportation Plan (RTP). CARB, in consultation with each MPO, will provide each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in the region for the years 2020 and 2035. These reduction targets will be updated every eight years but can be updated every four years if advancements in emissions technologies affect the reduction strategies to achieve the targets. CARB is also charged with reviewing each MPO's sustainable communities strategy or alternate planning strategy for consistency with its assigned targets.

The proposed project is located within the Southern California Association of Governments (SCAG) jurisdiction, which has authority to develop the SCS or APS. For the SCAG region, the targets set by CARB are at eight percent below 2005 per capita GHG emissions levels by 2020 and 19 percent below 2005 per capita GHG emissions levels by 2035. These reduction targets became effective October 2018.

[36] California Air Resources Board, California's Advanced Clean Cars Program, January 18, 2017. www.arb.ca.gov/msprog/acc/acc.htm.

PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

Evaluation Criteria

In compliance with Appendix G of the State CEQA Guidelines, this report analyzes the project's anticipated energy use to determine if the project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

In addition, Appendix F of the State CEQA Guidelines states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas and oil; and
- Increasing reliance on renewable energy sources.

Methodology

Information from the CalEEMod 2022.1 Output contained in Appendix B, utilized for the air quality and greenhouse gas analyses in Sections 2 and 4 respectively of this report, were also utilized for this analysis. The CalEEMod outputs detail project related construction equipment, transportation energy demands, and facility energy demands.

Construction Energy Demands

The construction schedule is anticipated to start no sooner than August 2022 for demolition and being completed by October 2022, with all other construction phases beginning no sooner than June 2023 and being completed by June 2024. Staging of construction vehicles and equipment will occur on-site. The approximately thirteen-month schedule is relatively short and the project site is approximately 13.74 acres.

Construction Equipment Electricity Usage Estimates

As stated previously, Electrical service will be provided by SCE. The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed project. Based on the 2021 National Construction Estimator, Richard Pray (2021),[37] the typical power cost per 1,000 square feet of building construction per month is estimated to be $2.37. The project plans to develop the site with up to 284,130 square feet of floor area consisting of 85,239 square feet of warehouse, 170,478 square feet of manufacturing, and 28,413 square feet of office. Based on Table 25, the total power cost of the on-site electricity usage during the construction of the proposed project is estimated to be approximately $9,427.43. Furthermore, as shown in Table 25, the total electricity usage from project construction related activities is estimated to be approximately 67,339 kWh.[38]

Construction Equipment Fuel Estimates

Fuel consumed by construction equipment would be the primary energy resource expended over the course of project construction. Fuel consumed by construction equipment was evaluated with the following assumptions:

[37] Pray, Richard. 2021 National Construction Estimator. Carlsbad : Craftsman Book Company, 2021.

[38] Assumes the project will be under the General Service Non-Demand (GS-1) rate under SCE. https://www.sce.com/regulatory/tariff-books/rates-pricing-choices

- Construction schedule of approximately 14 months
- All construction equipment was assumed to run on diesel fuel
- Typical daily use of 8 hours, with some equipment operating from ~6-7 hours
- Aggregate fuel consumption rate for all equipment was estimated at 18.5 hp-hr/gallon (from CARB's 2017 Emissions Factors Tables and fuel consumption rate factors as shown in Table D-21 of the Moyer Guidelines: (https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf).
- Diesel fuel would be the responsibility of the equipment operators/contractors and would be sources within the region.
- Project construction represents a "single-event" for diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources during long term operation.

Using the CalEEMod data input for the air quality and greenhouse gas analyses (Sections 2 and 4 of this report), the project's construction phase would consume electricity and fossil fuels as a single energy demand, that is, once construction is completed their use would cease. CARB's 2017 Emissions Factors Tables show that on average aggregate fuel consumption (gasoline and diesel fuel) would be approximately 18.5 hp-hr-gal. Table 26 shows the results of the analysis of construction equipment.

As presented in Table 26, project construction activities would consume an estimated 46,296 gallons of diesel fuel. As stated previously, project construction would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

Construction Worker Fuel Estimates

It is assumed that construction worker trips are from light duty autos (LDA), light duty truck 1 (LDT1), and light duty truck 2 9LDT2) at a mix of 25 percent/50 percent/25 percent, respectively, along area roadways.[39] With respect to estimated VMT, the construction worker trips would generate an estimated 601,278 VMT. Data regarding project related construction worker trips were based on CalEEMod 2022.1 model defaults.

Vehicle fuel efficiencies for construction workers were estimated in the air quality and greenhouse gas analyses (Sections 2 and 4 of this report) using information generated using CARB's EMFAC 2021 model. An aggregate fuel efficiency of 25.44 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. Table 27 shows that an estimated 23,635 gallons of fuel would be consumed for construction worker trips.

Construction Vendor/Hauling Fuel Estimates

Tables 28 and 29 show the estimated fuel consumption for vendor and hauling during construction. With respect to estimated VMT, the vendor and hauling trips would generate an estimated 236,187 VMT. Data regarding project related construction worker trips were based on CalEEMod 2022.1 model defaults.

For the architectural coatings it is assumed that the contractors would be responsible for bringing coatings and equipment with them in their light duty vehicles. Therefore, vendors delivering construction material or hauling debris from the site during demolition and grading would use medium to heavy duty vehicles with an average fuel consumption of 6.98 mpg for medium heavy duty trucks and 6.29 mpg for heavy heavy duty trucks (see Appendix B for details). [40] Tables 28 and 29 show that an estimated 35,667 gallons of fuel would be consumed for vendor and hauling trips.

[39] CalEEMod User's Guide Appendix C (April 2022) states that construction work trips are made by a fleet consisting of 25 percent light-duty auto (or passenger car), 50 percent light-duty truck type 1 (LDT1), and 25 percent lightduty truck type 2 (LDT2).

[40] CalEEMod User's Guide Appendix C (April 2022) states that vendor trips are made by a fleet consisting of 50 percent medium trucks (MHDT) and 50 percent heavy trucks (HHDT) and that hauling and onsite truck trips are made by a fleet consisting of 100 percent HHDT.

Construction Energy Efficiency/Conservation Measures

Construction equipment used over the approximately fourteen-month construction phase would conform to CARB regulations and California emissions standards and is evidence of related fuel efficiencies. There are no unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with these measures would result in a more efficient use of construction-related energy and would minimize or eliminate wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additionally, as required by California Code of Regulations Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby minimizing or eliminating unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Enforcement of idling limitations is realized through periodic site inspections conducted by ity building officials, and/or in response to citizen complaints.

Operational Energy Demands

Energy consumption in support of or related to project operations would include transportation energy demands (energy consumed by employee and patron vehicles accessing the project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

Transportation Fuel Consumption

Using the CalEEMod output from the air quality and greenhouse gas analyses (Sections 2 and 4 of this report), it is assumed that an average trip for autos and light trucks was assumed to be 40 miles and 3- 4-axle trucks were assumed to travel an average of 23.5 miles[41]. To present a worst-case scenario, it was assumed that vehicles would operate 365 days per year. Table 30 shows the estimated annual fuel consumption for all classes of vehicles from autos to heavy-heavy trucks. [42]

Per the TIA, the proposed project would generate, 1,263 vehicle trips per day (non-PCE) and 1,562 vehicle trips per day (PCE). The vehicle fleet mix was used from the CalEEMod output. Table 31 shows that an estimated 727,484 gallons of fuel would be consumed per year for the operation of the proposed project.

Trip generation and VMT generated by the proposed project are consistent with other similar industrial uses of similar scale and configuration as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition, 2021). That is, the proposed project does not propose uses or operations that would inherently result in excessive and wasteful vehicle trips and VMT, nor associated excess and wasteful vehicle energy consumption. Furthermore, the state of California consumed approximately 4.2

[41] CalEEMod default distance for H-W (home-work) or C-W (commercial-work) is 13.9 miles and 6.9 miles for H-O (home-other) or C-O (commercial-other). W-O (work-other) was changed to 40 miles for the warehouse land use per SCAQMD recommendations.

[42] Average fuel economy based on aggregate mileage calculated in EMFAC 2021 for opening year (2024). See Appendix B for EMFAC output.

billion gallons of diesel and 15.1 billion gallons of gasoline in 2015.[43,44] Therefore, the increase in fuel consumption from the proposed project is insignificant in comparison to the State's demand. Therefore, project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

Facility Energy Demands (Electricity and Natural Gas)

Building operation and site maintenance (including landscape maintenance) would result in the consumption of electricity (provided by Southern California Edison) and natural gas (provided by Southern California Gas Company). The annual natural gas and electricity demands were provided per the CalEEMod output from the air quality and greenhouse gas analyses (Sections 2 and 4 of this report) and are provided in Table 31.

As shown in Table 31, the estimated electricity demand for the proposed project is approximately 2,817,018 kWh per year. In 2020, the non-residential sector of the County of Los Angeles consumed approximately 42,737 million kWh of electricity.[45] In addition, the estimated natural gas consumption for the proposed project is approximately 9,660,037 kBTU per year. In 2020, the non-residential sector of the County of Los Angeles consumed approximately 1,699 million therms of gas.[46] Therefore, the increase in both electricity and natural gas demand from the proposed project is insignificant compared to the County's 2020 non-residential sector demand.

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California, the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting. Non-building energy use, or "plug-in" energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

Furthermore, the proposed project energy demands in total would be comparable to other non-residential projects of similar scale and configuration. Therefore, the project facilities' energy demands and energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

RENEWABLE ENERGY AND ENERGY EFFICIENCY PLAN CONSISTENCY

Regarding federal transportation regulations, the project site is located in an already developed area. Access to/from the project site is from existing roads. These roads are already in place so the project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be proposed pursuant to the ISTEA because SCAG is not planning for intermodal facilities in the project area.

Regarding the State's Energy Plan and compliance with Title 24 CCR energy efficiency standards, the applicant is required to comply with the California Green Building Standard Code requirements for energy efficient buildings and appliances as well as utility energy efficiency programs implemented by Southern California Edison and Southern California Gas Company.

Regarding Pavley (AB 1493) regulations, an individual project does not have the ability to comply or conflict with these regulations because they are intended for agencies and their adoption of procedures and protocols for reporting and certifying GHG emission reductions from mobile sources.

Regarding the State's Renewable Energy Portfolio Standards, the project would be required to meet or exceed the energy standards established in the California Green Building Standards Code, Title 24, Part 11 (CALGreen). CALGreen Standards require that new buildings reduce water consumption, employ building

[43] https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/california-gasoline-data-facts-and-statistics

[44] https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/diesel-fuel-data-facts-and-statistics

[45] California Energy Commission, Electricity Consumption by County. https://ecdms.energy.ca.gov/elecbycounty.aspx

[46] California Energy Commission, Gas Consumption by County. http://ecdms.energy.ca.gov/gasbycounty.aspx

commissioning to increase building system efficiencies, divert construction waste from landfills, and install low pollutant-emitting finish materials.

As shown in Section 3 above, the proposed project is consistent with the applicable strategies of the City of Torrance Climate Action Plan.

CONCLUSIONS

As supported by the preceding analyses, project construction and operations would not result in the inefficient, wasteful or unnecessary consumption of energy. The proposed project does not include any unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities and is an industrial project that is not proposing any additional features that would require a larger energy demand than other industrial projects of similar scale and configuration. The energy demands of the project are anticipated to be accommodated within the context of available resources and energy delivery systems. The project would therefore not cause or result in the need for additional energy producing or transmission facilities. The project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California. Notwithstanding, the project proposes industrial warehouse uses and will not have any long-term effects on an energy provider's future energy development or future energy conservation strategies.

Table 23
Total Electricity System Power (California 2020)

Fuel Type	California In-State Generation (GWh)	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	Total Imports (GWh)	Percent of Imports	Total California Energy Mix (GWh)	Total California Power Mix
Coal	317	0.17%	194	6,963	7,157	8.76%	7,474	2.74%
Natural Gas	92,298	48.35%	70	8,654	8,724	10.68%	101,022	37.06%
Nuclear	16,280	8.53%	672	8,481	9,154	11.21%	25,434	9.33%
Oil	30	0.02%	-	-	0	0.00%	30	0.01%
Other (Petroleum Coke/Waste Heat)	384	0.20%	125	9	134	0.16%	518	0.19%
Large Hydro	17,938	9.40%	14,078	1,259	15,337	18.78%	33,275	12.21%
Unspecified Sources of Power	-	0.00%	12,870	1,745	14,615	17.90%	14,615	5.36%
Renewables	63,665	33.35%	13,184	13,359	26,543	32.50%	90,208	33.09%
Biomass	5,680	2.97%	975	25	1,000	1.22%	6,679	2.45%
Geothermal	11,345	5.94%	166	1,825	1,991	2.44%	13,336	4.89%
Small Hydro	3,476	1.82%	320	2	322	0.39%	3,798	1.39%
Solar	29,456	15.43%	284	6,312	6,596	8.08%	36,052	13.23%
Wind	13,708	7.18%	11,438	5,197	16,635	20.37%	30,343	11.13%
Total	190,913	100%	41,193	40,471	81,663	100%	272,576	100%

Notes:

(1) Source: California Energy Commission. 2020 Total System electric Generation. https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation

Table 24
SCE 2020 Power Content Mix

Energy Resources	2020 SCE Power Mix
Eligible Renewable	30.9%
Biomass & Biowaste	*0.1%*
Geothermal	*5.5%*
Eligible Hydroelectric	*0.8%*
Solar	*15.1%*
Wind	*9.4%*
Coal	0.0%
Large Hydroelectric	3.3%
Natural Gas	15.2%
Nuclear	8.4%
Other	0.3%
Unspecified Sources of power*	42.0%
Total	100%

Notes:

(1) https://www.sce.com/sites/default/files/inline-files/SCE_2020PowerContentLabel.pdf

* Unspecified sources of power means electricity from transactions that are not traceable to specific generation sources.

Table 25
Project Construction Power Cost and Electricity Usage

Power Cost (per 1,000 square foot of building per month of construction)	Total Building Size (1,000 Square Foot)[1]	Construction Duration (months)	Total Project Construction Power Cost
$2.37	284.13	14	$9,427.43

Cost per kWh[2]	Total Project Construction Electricity Usage (kWh)
$0.14	67,339

Notes:

(1) Includes 85,239 square feet of warehouse, 170,478 square feet of manufacturing, 28,413 square feet of office use.

(2) Assumes the project will be under the General Service Non-Demand (GS-1) rate under SCE. https://www.sce.com/regulatory/tariff-books/rates-pricing-choices

Table 26
Construction Equipment Fuel Consumption Estimates

Phase	Number of Days	Offroad Equipment Type	Amount	Usage Hours	Horse Power (HP)	Load Factor	HP hrs/day	Total Fuel Consumption (gal diesel fuel)[1]
Demolition	43	Concrete/Industrial Saws	1	8	33	0.73	193	448
	43	Excavators	3	8	36	0.38	328	763
	43	Rubber Tired Dozers	2	8	367	0.40	2,349	5,459
Grading	30	Excavators	2	8	36	0.38	219	355
	30	Graders	1	8	148	0.41	485	787
	30	Rubber Tired Dozers	1	8	367	0.40	1,174	1,904
	30	Scrapers	2	8	423	0.48	3,249	5,268
	30	Tractors/Loaders/Backhoes	2	8	84	0.37	497	806
Building Construction	252	Cranes	1	7	367	0.29	745	10,148
	252	Forklifts	3	8	82	0.20	394	5,361
	252	Generator Sets	1	8	14	0.74	83	1,129
	252	Tractors/Loaders/Backhoes	3	7	84	0.37	653	8,891
	252	Welders	1	8	46	0.45	166	2,256
Paving	34	Pavers	2	8	81	0.42	544	1,000
	34	Paving Equipment	2	8	89	0.36	513	942
	34	Rollers	2	8	36	0.38	219	402
Architectural Coating	65	Air Compressors	1	6	37	0.48	107	374
CONSTRUCTION FUEL DEMAND (gallons of diesel fuel)								**46,296**

Notes:

(1) Using Carl Moyer Guidelines Table D-21 Fuel consumption rate factors (bhp-hr/gal) for engines less than 750 hp. (Source: https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf)

Table 27
Construction Worker Fuel Consumption Estimates

Phase	Number of Days	Worker Trips/Day	Trip Length (miles)[1]	Vehicle Miles Traveled[1]	Average Vehicle Fuel Economy (mpg)[2]	Estimated Fuel Consumption (gallons)
Demolition	43	15	18.5	11,933	25.44	469
Grading	30	20	18.5	11,100	25.44	436
Building Construction	252	116	18.5	540,792	25.44	21,258
Paving	34	15	18.5	9,435	25.44	371
Architectural Coating	65	23.3	18.5	28,018	25.44	1,101
Total Construction Worker Fuel Consumption						**23,635**

Notes:

(1) Assumptions for the worker trip length and vehicle miles traveled are consistent with CalEEMod Version 2022.1 defaults.

(2) Per CalEEMod User's Guide Appendix C (April 2022), CalEEMod assumes that construction work trips are made by a fleet consisting of 25 percent light-duty auto (or passenger car), 50 percent light-duty truck type 1 (LDT1), and 25 percent light duty truck type 2 (LDT2).

Table 28
Construction Vendor Fuel Consumption Estimates (MHD & HHD Trucks)

Phase	Number of Days	Vendor Trips/Day	Trip Length (miles)[1]	Vehicle Miles Traveled[1]	Average Vehicle Fuel Economy (mpg)[2]	Estimated Fuel Consumption (gallons)
Demolition	43	0	10.2	0	6.98	0
Grading	30	0	10.2	0	6.98	0
Building Construction	252	46.6	10.2	119,781	6.98	17,161
Paving	34	0	10.2	0	6.98	0
Architectural Coating	65	0	10.2	0	6.98	0
Total Construction Vendor Fuel Consumption						**17,161**

Notes:

(1) Assumptions for the vendor trip length and vehicle miles traveled are consistent with CalEEMod Version 2022.1 defaults.

(2) Per CalEEMod User's Guide Appendix C (April 2022), CalEEMod assumes vendor trips are made by a fleet consisting of 50 percent medium trucks (MHDT) and 50 percent heavy trucks (HHDT).

Table 29
Construction Hauling Fuel Consumption Estimates (HHD Trucks)

Phase	Number of Days	Hauling Trips/Day	Trip Length (miles)[1]	Vehicle Miles Traveled[1]	Average Vehicle Fuel Economy (mpg)[2]	Estimated Fuel Consumption (gallons)
Demolition	43	62.1	20	53,406	6.29	8,491
Grading	30	105	20	63,000	6.29	10,016
Building Construction	252	0	20	0	6.29	0
Paving	34	0	20	0	6.29	0
Architectural Coating	65	0	20	0	6.29	0
Total Construction Hauling Fuel Consumption						**18,507**

Notes:

(1) Assumptions for the hauling trip length and vehicle miles traveled are consistent with CalEEMod Version 2022.1 defaults.

(2) Per CalEEMod User's Guide Appendix C (April 2022), CalEEMod assumes hauling and onsite truck trips are made by a fleet consisting of 100 percent HHDT.

Table 30
Estimated Vehicle Operations Fuel Consumption

Vehicle Type	Vehicle Mix	Number of Vehicle Trips	Average Trip Length (miles)[1]	Daily VMT	Average Fuel Economy (mpg)	Total Gallons per Day	Total Annual Fuel Consumption (gallons)
Light Auto	Automobile	718	23.5	16,873	31.35	538.21	196,448
Light Truck	Automobile	36	23.5	846	24.4	34.67	12,655
Light Truck	Automobile	184	23.5	4,324	23.91	180.84	66,008
Medium Truck	Automobile	112	23.5	2,632	19.6	134.29	49,014
Light Heavy Truck	2-Axle Truck	27	40	1,080	15.57	69.36	25,318
Light Heavy Truck 10,000 lbs +	2-Axle Truck	7	40	280	14.86	18.84	6,878
Medium Heavy Truck	3-Axle Truck	44	40	1,760	7.75	227.10	82,890
Heavy Heavy Truck	4-Axle Truck	118	40	4,720	6.05	780.17	284,760
Motorcycle	Automobile	17	23.5	400	41.52	9.62	3,512
Total		1,263	--	32,915	--	1993.11	--
Total Annual Fuel Consumption							**727,484**

Notes:

(1) Based on the size of the site and relative location, trips were assumed to be local rather than regional.

Table 31
Project Annual Operational Energy Demand Summary

Natural Gas Demand	kBTU/year[1]
General Office Building	720,169
Manufacturing	7,296,789
Unrefrigerated Warehouse - No Rail	1,643,079
Total	9,660,037

Electricity Demand	kWh/year[1]
General Office Building	506,328
Manufacturing	1,635,350
Parking Lot	276,391
Unrefrigerated Warehouse - No Rail	398,949
Total	2,817,018

Notes:

(1) Taken from the CalEEMod Version 2022.1 annual output (Appendix B of this report).

6. EMISSIONS REDUCTION MEASURES

CONSTRUCTION MEASURES

Adherence to SCAQMD Rule 403 is required.

OPERATIONAL MEASURES

No measures beyond current regulatory standards are required.

7. REFERENCES

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California Air Resources Board

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City of Torrance

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2005 Rule 403 Fugitive Dust

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2008 Final Localized Significance Threshold Methodology, Revised

2012 Final 2012 Air Quality Management Plan

2016 2016 Air Quality Management Plan

2018 Historical Data by Year. 2013, 2014 and 2015 Air Quality Data Tables.
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2011 Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California

APPENDICES

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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	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
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
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SANBAG	San Bernardino Association of Governments
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SSAB	Salton Sea Air Basin
SF_6	Sulfur hexafluoride
SIP	State Implementation Plan
SOx	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B

CALEEMOD MODEL DETAILED REPORT & EMFAC DATA

190th St Warehouse Detailed Report

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1.1. Basic Project Information

Data Field	Value
Project Name	190th St Warehouse
Lead Agency	City of Torrance
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.50
Precipitation (days)	17.4
Location	2555 W 190th St, Torrance, CA 90504, USA
County	Los Angeles-South Coast
City	Torrance
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4672
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	85.0	1000sqft	1.95	85,239	7,484	—	—	—
Manufacturing	170	1000sqft	3.90	170,478	7,484	—	—	—

General Office Building	28.0	1000sqft	0.64	28,413	7,484	—	—	office within warehouse bldg
Parking Lot	600	Space	7.24	0.00	7,484	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.3	47.1	36.7	0.11	1.69	5.87	7.56	1.56	2.02	3.58	—	14,409	14,409	0.73	1.25	18.3	14,818
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.24	37.4	32.4	0.06	1.40	4.92	6.32	1.26	0.90	2.16	—	8,150	8,150	0.44	0.77	0.30	8,390
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.77	8.78	10.6	0.02	0.33	1.12	1.45	0.31	0.32	0.63	—	3,048	3,048	0.14	0.20	2.28	3,113
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.87	1.60	1.93	< 0.005	0.06	0.20	0.27	0.06	0.06	0.11	—	505	505	0.02	0.03	0.38	515

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2022	3.22	37.1	28.1	0.06	1.40	4.92	6.32	1.26	0.90	2.16	—	8,162	8,162	0.44	0.77	11.1	8,412
2023	3.98	47.1	36.7	0.11	1.69	5.87	7.56	1.56	2.02	3.58	—	14,409	14,409	0.73	1.25	18.3	14,818
2024	24.3	14.6	25.7	0.04	0.55	2.23	2.78	0.51	0.54	1.05	—	6,007	6,007	0.25	0.29	11.9	6,113
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2022	3.21	37.4	27.9	0.06	1.40	4.92	6.32	1.26	0.90	2.16	—	8,150	8,150	0.44	0.77	0.29	8,390
2023	1.86	14.5	22.2	0.03	0.57	1.92	2.49	0.53	0.47	1.00	—	5,516	5,516	0.23	0.28	0.29	5,606
2024	3.24	21.6	32.4	0.05	0.91	2.12	3.03	0.84	0.51	1.35	—	7,172	7,172	0.30	0.30	0.30	7,270
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2022	0.38	4.42	3.29	0.01	0.16	0.58	0.74	0.15	0.11	0.25	—	961	961	0.05	0.09	0.56	989
2023	0.95	8.78	10.6	0.02	0.33	1.12	1.45	0.31	0.32	0.63	—	3,048	3,048	0.14	0.20	2.28	3,113
2024	4.77	5.76	9.19	0.01	0.22	0.74	0.97	0.21	0.18	0.39	—	2,171	2,171	0.09	0.10	1.74	2,206
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2022	0.07	0.81	0.60	< 0.005	0.03	0.11	0.14	0.03	0.02	0.05	—	159	159	0.01	0.01	0.09	164
2023	0.17	1.60	1.93	< 0.005	0.06	0.20	0.27	0.06	0.06	0.11	—	505	505	0.02	0.03	0.38	515
2024	0.87	1.05	1.68	< 0.005	0.04	0.14	0.18	0.04	0.03	0.07	—	359	359	0.02	0.02	0.29	365

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.95	6.12	27.3	0.06	0.41	0.85	1.26	0.42	0.15	0.57	293	11,641	11,935	30.6	0.45	2,326	15,159

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.91	6.11	14.1	0.05	0.40	0.85	1.24	0.40	0.15	0.55	293	11,486	11,779	30.6	0.45	2,316	14,995
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.01	5.92	20.3	0.05	0.40	0.64	1.04	0.41	0.11	0.52	293	10,947	11,240	30.5	0.43	2,319	14,451
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.64	1.08	3.70	0.01	0.07	0.12	0.19	0.07	0.02	0.09	48.5	1,812	1,861	5.06	0.07	384	2,392

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.15	1.02	10.8	0.02	0.02	0.85	0.86	0.02	0.15	0.17	—	2,521	2,521	0.12	0.10	9.88	2,565
Area	8.53	0.10	12.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.8	50.8	< 0.005	< 0.005	—	51.0
Energy	0.27	5.00	4.20	0.03	0.38	—	0.38	0.38	—	0.38	—	8,652	8,652	0.78	0.04	—	8,684
Water	—	—	—	—	—	—	—	—	—	—	123	418	540	12.6	0.30	—	946
Waste	—	—	—	—	—	—	—	—	—	—	171	0.00	171	17.1	0.00	—	597
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,316	2,316
Total	9.95	6.12	27.3	0.06	0.41	0.85	1.26	0.42	0.15	0.57	293	11,641	11,935	30.6	0.45	2,326	15,159
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.13	1.12	9.85	0.02	0.02	0.85	0.86	0.02	0.15	0.17	—	2,416	2,416	0.13	0.11	0.26	2,452
Area	6.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Energy	0.27	5.00	4.20	0.03	0.38	—	0.38	0.38	—	0.38	—	8,652	8,652	0.78	0.04	—	8,684
Water	—	—	—	—	—	—	—	—	—	—	123	418	540	12.6	0.30	—	946
Waste	—	—	—	—	—	—	—	—	—	—	171	0.00	171	17.1	0.00	—	597
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,316	2,316
Total	7.91	6.11	14.1	0.05	0.40	0.85	1.24	0.40	0.15	0.55	293	11,486	11,779	30.6	0.45	2,316	14,995
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.85	0.85	7.63	0.02	0.01	0.64	0.65	0.01	0.11	0.13	—	1,842	1,842	0.09	0.08	3.22	1,873
Area	7.89	0.07	8.46	< 0.005	0.01	—	0.01	0.02	—	0.02	—	34.8	34.8	< 0.005	< 0.005	—	34.9
Energy	0.27	5.00	4.20	0.03	0.38	—	0.38	0.38	—	0.38	—	8,652	8,652	0.78	0.04	—	8,684
Water	—	—	—	—	—	—	—	—	—	—	123	418	540	12.6	0.30	—	946
Waste	—	—	—	—	—	—	—	—	—	—	171	0.00	171	17.1	0.00	—	597
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,316	2,316
Total	9.01	5.92	20.3	0.05	0.40	0.64	1.04	0.41	0.11	0.52	293	10,947	11,240	30.5	0.43	2,319	14,451
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.15	0.16	1.39	< 0.005	< 0.005	0.12	0.12	< 0.005	0.02	0.02	—	305	305	0.02	0.01	0.53	310
Area	1.44	0.01	1.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.76	5.76	< 0.005	< 0.005	—	5.78
Energy	0.05	0.91	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	1,432	1,432	0.13	0.01	—	1,438
Water	—	—	—	—	—	—	—	—	—	—	20.3	69.2	89.5	2.09	0.05	—	157
Waste	—	—	—	—	—	—	—	—	—	—	28.3	0.00	28.3	2.82	0.00	—	98.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	383	383
Total	1.64	1.08	3.70	0.01	0.07	0.12	0.19	0.07	0.02	0.09	48.5	1,812	1,861	5.06	0.07	384	2,392

3. Construction Emissions Details

3.1. Demolition (2022) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.02	29.6	24.3	0.03	1.31	—	1.31	1.21	—	1.21	—	3,422	3,422	0.14	0.03	—	3,434
Demolition	—	—	—	—	—	3.55	3.55	—	0.54	0.54	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.02	29.6	24.3	0.03	1.31	—	1.31	1.21	—	1.21	—	3,422	3,422	0.14	0.03	—	3,434
Demolition	—	—	—	—	—	3.55	3.55	—	0.54	0.54	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	3.48	2.87	< 0.005	0.15	—	0.15	0.14	—	0.14	—	403	403	0.02	< 0.005	—	404
Demolition	—	—	—	—	—	0.42	0.42	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.64	0.52	< 0.005	0.03	—	0.03	0.03	—	0.03	—	66.7	66.7	< 0.005	< 0.005	—	67.0
Demolition	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.09	1.33	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	221	221	0.01	0.01	1.01	225
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.12	7.47	2.40	0.03	0.08	0.36	0.44	0.05	0.11	0.16	—	4,519	4,519	0.29	0.73	10.1	4,754
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.14	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	209	209	0.01	0.01	0.03	212
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.12	7.75	2.43	0.03	0.08	0.36	0.44	0.06	0.11	0.17	—	4,519	4,519	0.29	0.73	0.26	4,744
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.14	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	25.0	25.0	< 0.005	< 0.005	0.05	25.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.92	0.28	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02	—	532	532	0.03	0.09	0.51	559
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	4.15	4.15	< 0.005	< 0.005	0.01	4.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.17	0.05	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	88.1	88.1	0.01	0.01	0.08	92.6

3.3. Grading (2023) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.72	37.3	31.4	0.06	1.59	—	1.59	1.47	—	1.47	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	3.62	3.62	—	1.43	1.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	3.07	2.58	0.01	0.13	—	0.13	0.12	—	0.12	—	542	542	0.02	< 0.005	—	544
Dust From Material Movement	—	—	—	—	—	0.30	0.30	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.56	0.47	< 0.005	0.02	—	0.02	0.02	—	0.02	—	89.8	89.8	< 0.005	< 0.005	—	90.1
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.63	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	289	289	0.01	0.01	1.22	293
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.16	9.69	3.66	0.05	0.09	0.60	0.69	0.09	0.19	0.28	—	7,522	7,522	0.45	1.19	17.1	7,904
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	22.8	22.8	< 0.005	< 0.005	0.04	23.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.84	0.30	< 0.005	0.01	0.05	0.06	0.01	0.02	0.02	—	618	618	0.04	0.10	0.60	649
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	3.78	3.78	< 0.005	< 0.005	0.01	3.83
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.15	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	102	102	0.01	0.02	0.10	107

3.5. Building Construction (2023) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.98	4.43	0.01	0.19	—	0.19	0.17	—	0.17	—	807	807	0.03	0.01	—	810
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.73	0.81	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.61	9.52	0.00	0.00	0.10	0.10	0.00	0.00	0.00	—	1,682	1,682	0.07	0.06	7.13	1,708
Vendor	0.06	1.86	0.94	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,524	1,524	0.06	0.21	4.07	1,591
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.71	8.08	0.00	0.00	0.10	0.10	0.00	0.00	0.00	—	1,594	1,594	0.07	0.06	0.18	1,613
Vendor	0.06	1.94	0.95	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,525	1,525	0.06	0.21	0.11	1,588
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.18	0.24	2.85	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	544	544	0.02	0.02	1.04	552
Vendor	0.02	0.66	0.32	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	513	513	0.02	0.07	0.59	535
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.52	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	90.1	90.1	< 0.005	< 0.005	0.17	91.4
Vendor	< 0.005	0.12	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	84.9	84.9	< 0.005	0.01	0.10	88.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.95	4.62	0.01	0.18	—	0.18	0.16	—	0.16	—	845	845	0.03	0.01	—	847

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.72	0.84	< 0.005	0.03	—	0.03	0.03	—	0.03	—	140	140	0.01	< 0.005	—	140
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.56	8.79	0.00	0.00	0.10	0.10	0.00	0.00	0.00	—	1,645	1,645	0.07	0.06	6.49	1,669
Vendor	0.05	1.77	0.87	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,502	1,502	0.06	0.21	4.07	1,570
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.66	7.43	0.00	0.00	0.10	0.10	0.00	0.00	0.00	—	1,559	1,559	0.07	0.06	0.17	1,578
Vendor	0.04	1.84	0.89	0.01	0.02	0.08	0.10	0.02	0.03	0.05	—	1,503	1,503	0.06	0.21	0.11	1,566
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.23	2.75	0.00	0.00	0.03	0.03	0.00	0.00	0.00	—	557	557	0.02	0.02	0.99	565
Vendor	0.02	0.66	0.31	< 0.005	0.01	0.03	0.04	0.01	0.01	0.02	—	529	529	0.02	0.07	0.62	552
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.04	0.50	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	92.3	92.3	< 0.005	< 0.005	0.16	93.5
Vendor	< 0.005	0.12	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	87.6	87.6	< 0.005	0.01	0.10	91.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.73	0.93	< 0.005	0.04	—	0.04	0.03	—	0.03	—	141	141	0.01	< 0.005	—	141
Paving	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.3	23.3	< 0.005	< 0.005	—	23.4
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	0.96	0.00	0.00	0.01	0.01	0.00	0.00	0.00	—	201	201	0.01	0.01	0.02	203
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	19.0	19.0	< 0.005	< 0.005	0.03	19.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	3.14	3.14	< 0.005	< 0.005	0.01	3.18
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	22.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.8	23.8	< 0.005	< 0.005	—	23.9
Architectural Coatings	3.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.94	3.94	< 0.005	< 0.005	—	3.95
Architectural Coatings	0.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.11	1.76	0.00	0.00	0.02	0.02	0.00	0.00	0.00	—	329	329	0.01	0.01	1.30	334
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.28	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	56.3	56.3	< 0.005	< 0.005	0.10	57.1

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	—	9.33	9.33	< 0.005	< 0.005	0.02	9.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.02	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	28.5	28.5	< 0.005	< 0.005	0.10	29.4
Manufacturing	0.02	0.07	0.26	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	94.0	94.0	< 0.005	0.01	0.32	96.9
General Office Building	1.12	0.93	10.4	0.02	0.02	0.14	0.15	0.01	0.04	0.06	—	2,398	2,398	0.12	0.09	9.47	2,439
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.15	1.02	10.8	0.02	0.02	0.14	0.16	0.02	0.04	0.06	—	2,521	2,521	0.12	0.10	9.88	2,565

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.02	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	27.8	27.8	< 0.005	< 0.005	< 0.005	28.6
Manufacturing	0.02	0.08	0.24	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	91.7	91.7	< 0.005	0.01	0.01	94.3
General Office Building	1.10	1.02	9.55	0.02	0.02	0.14	0.15	0.01	0.04	0.06	—	2,297	2,297	0.12	0.10	0.25	2,329
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.13	1.12	9.85	0.02	0.02	0.14	0.16	0.02	0.04	0.06	—	2,416	2,416	0.13	0.11	0.26	2,452
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.39	3.39	< 0.005	< 0.005	0.01	3.48
Manufacturing	< 0.005	0.01	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.02	12.4
General Office Building	0.15	0.14	1.35	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	290	290	0.01	0.01	0.51	294
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.15	0.16	1.39	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	305	305	0.02	0.01	0.53	310

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	381	381	0.04	< 0.005	—	383
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	1,562	1,562	0.15	0.02	—	1,571
General Office Building	—	—	—	—	—	—	—	—	—	—	—	484	484	0.05	0.01	—	486
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	264	264	0.02	< 0.005	—	266
Total	—	—	—	—	—	—	—	—	—	—	—	2,691	2,691	0.25	0.03	—	2,706
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	381	381	0.04	< 0.005	—	383
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	1,562	1,562	0.15	0.02	—	1,571
General Office Building	—	—	—	—	—	—	—	—	—	—	—	484	484	0.05	0.01	—	486
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	264	264	0.02	< 0.005	—	266
Total	—	—	—	—	—	—	—	—	—	—	—	2,691	2,691	0.25	0.03	—	2,706
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	63.1	63.1	0.01	< 0.005	—	63.5
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	259	259	0.02	< 0.005	—	260
General Office Building	—	—	—	—	—	—	—	—	—	—	—	80.1	80.1	0.01	< 0.005	—	80.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	43.7	43.7	< 0.005	< 0.005	—	44.0
Total	—	—	—	—	—	—	—	—	—	—	—	445	445	0.04	0.01	—	448

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,053	1,053	0.09	< 0.005	—	1,056
Manufacturing	0.22	3.92	3.29	0.02	0.30	—	0.30	0.30	—	0.30	—	4,677	4,677	0.41	0.01	—	4,690
General Office Building	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	231	231	0.02	< 0.005	—	231
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.27	5.00	4.20	0.03	0.38	—	0.38	0.38	—	0.38	—	5,961	5,961	0.53	0.01	—	5,978
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,053	1,053	0.09	< 0.005	—	1,056
Manufacturing	0.22	3.92	3.29	0.02	0.30	—	0.30	0.30	—	0.30	—	4,677	4,677	0.41	0.01	—	4,690
General Office Building	0.01	0.19	0.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	231	231	0.02	< 0.005	—	231
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.27	5.00	4.20	0.03	0.38	—	0.38	0.38	—	0.38	—	5,961	5,961	0.53	0.01	—	5,978
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	174	174	0.02	< 0.005	—	175
Manufacturing	0.04	0.72	0.60	< 0.005	0.05	—	0.05	0.05	—	0.05	—	774	774	0.07	< 0.005	—	776
General Office Building	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38.2	38.2	< 0.005	< 0.005	—	38.3
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.05	0.91	0.77	0.01	0.07	—	0.07	0.07	—	0.07	—	987	987	0.09	< 0.005	—	990

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	22.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.03	0.10	12.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.8	50.8	< 0.005	< 0.005	—	51.0
Total	30.8	0.10	12.4	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.8	50.8	< 0.005	< 0.005	—	51.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	6.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	6.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.25	0.01	1.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.76	5.76	< 0.005	< 0.005	—	5.78
Total	2.16	0.01	1.54	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.76	5.76	< 0.005	< 0.005	—	5.78

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	37.7	128	166	3.87	0.09	—	291
Manufacturing	—	—	—	—	—	—	—	—	—	—	75.3	256	331	7.75	0.19	—	581
General Office Building	—	—	—	—	—	—	—	—	—	—	9.54	32.9	42.4	0.98	0.02	—	74.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.53	0.53	< 0.005	< 0.005	—	0.54
Total	—	—	—	—	—	—	—	—	—	—	123	418	540	12.6	0.30	—	946
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	37.7	128	166	3.87	0.09	—	291
Manufacturing	—	—	—	—	—	—	—	—	—	—	75.3	256	331	7.75	0.19	—	581
General Office Building	—	—	—	—	—	—	—	—	—	—	9.54	32.9	42.4	0.98	0.02	—	74.0

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.53	0.53	< 0.005	< 0.005	—	0.54
Total	—	—	—	—	—	—	—	—	—	—	123	418	540	12.6	0.30	—	946
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	6.24	21.2	27.5	0.64	0.02	—	48.1
Manufacturing	—	—	—	—	—	—	—	—	—	—	12.5	42.4	54.9	1.28	0.03	—	96.2
General Office Building	—	—	—	—	—	—	—	—	—	—	1.58	5.45	7.02	0.16	< 0.005	—	12.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.09	0.09	< 0.005	< 0.005	—	0.09
Total	—	—	—	—	—	—	—	—	—	—	20.3	69.2	89.5	2.09	0.05	—	157

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	43.1	0.00	43.1	4.30	0.00	—	151
Manufacturing	—	—	—	—	—	—	—	—	—	—	114	0.00	114	11.4	0.00	—	397

General Office Building	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.40	0.00	—	49.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	171	0.00	171	17.1	0.00	—	597
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	43.1	0.00	43.1	4.30	0.00	—	151
Manufacturing	—	—	—	—	—	—	—	—	—	—	114	0.00	114	11.4	0.00	—	397
General Office Building	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.40	0.00	—	49.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	171	0.00	171	17.1	0.00	—	597
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.13	0.00	7.13	0.71	0.00	—	24.9
Manufacturing	—	—	—	—	—	—	—	—	—	—	18.8	0.00	18.8	1.88	0.00	—	65.8
General Office Building	—	—	—	—	—	—	—	—	—	—	2.32	0.00	2.32	0.23	0.00	—	8.13
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	28.3	0.00	28.3	2.82	0.00	—	98.9

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,272	2,272
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.4	44.4
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,316	2,316
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,272	2,272
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.4	44.4
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.07	0.07

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,316	2,316
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	376	376
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.35	7.35
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	383	383

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	8/31/2022	10/29/2022	5.00	43.0	—
Grading	Grading	6/1/2023	7/12/2023	5.00	30.0	—
Building Construction	Building Construction	7/13/2023	6/28/2024	5.00	252	—
Paving	Paving	2/13/2024	3/29/2024	5.00	34.0	—
Architectural Coating	Architectural Coating	4/1/2024	6/28/2024	5.00	65.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38

Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	62.1	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Grading	—	—	—	—

Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	105	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	116	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	46.6	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	23.3	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	440,393	146,798	18,931

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	10,687	—
Grading	25,200	—	90.0	0.00	—
Paving	0.00	0.00	0.00	0.00	7.24

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Manufacturing	0.00	0%
General Office Building	0.00	0%
Parking Lot	7.24	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2022	0.00	349	0.03	< 0.005
2023	0.00	349	0.03	< 0.005
2024	0.00	349	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	146	12.8	3.40	38,737	2,398	210	56.1	639,066
Manufacturing	809	253	168	232,510	7,801	2,447	1,626	2,246,281
General Office Building	308	61.9	19.6	83,381	2,932	598	189	805,540
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	440,393	146,798	18,931

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	398,949	349	0.0330	0.0040	1,643,079
Manufacturing	1,635,350	349	0.0330	0.0040	7,296,789
General Office Building	506,328	349	0.0330	0.0040	720,169
Parking Lot	276,391	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	19,656,250	104,953
Manufacturing	39,312,500	104,953
General Office Building	4,976,545	104,953
Parking Lot	0.00	104,953

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	79.9	0.00
Manufacturing	211	0.00
General Office Building	26.0	0.00
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0
Manufacturing	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	4.89	annual days of extreme heat
Extreme Precipitation	4.25	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

6.2. Initial Climate Risk Scores

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

Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract

Exposure Indicators	—
AQ-Ozone	24.9
AQ-PM	83.6
AQ-DPM	89.2
Drinking Water	29.9
Lead Risk Housing	76.7
Pesticides	67.6
Toxic Releases	98.5
Traffic	97.4
Effect Indicators	—
CleanUp Sites	51.7
Groundwater	83.6
Haz Waste Facilities/Generators	96.5
Impaired Water Bodies	0.00
Solid Waste	35.7
Sensitive Population	—
Asthma	32.9
Cardio-vascular	59.8
Low Birth Weights	45.3
Socioeconomic Factor Indicators	—
Education	49.2
Housing	17.9
Linguistic	50.0
Poverty	23.9
Unemployment	23.8

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	81.0727576
Employed	87.052483
Education	—
Bachelor's or higher	56.75606313
High school enrollment	100
Preschool enrollment	58.3472347
Transportation	—
Auto Access	81.29090209
Active commuting	30.9380213
Social	—
2-parent households	74.59258309
Voting	41.02399589
Neighborhood	—
Alcohol availability	48.54356474
Park access	40.11292185
Retail density	81.09842166
Supermarket access	17.86218401
Tree canopy	50.30155268
Housing	—
Homeownership	79.44308995
Housing habitability	87.43744386
Low-inc homeowner severe housing cost burden	79.21211344
Low-inc renter severe housing cost burden	72.60361863
Uncrowded housing	60.05389452
Health Outcomes	—

Insured adults	66.95752598
Arthritis	44.8
Asthma ER Admissions	48.0
High Blood Pressure	46.3
Cancer (excluding skin)	27.6
Asthma	80.2
Coronary Heart Disease	43.7
Chronic Obstructive Pulmonary Disease	59.8
Diagnosed Diabetes	52.6
Life Expectancy at Birth	47.8
Cognitively Disabled	23.2
Physically Disabled	28.8
Heart Attack ER Admissions	58.5
Mental Health Not Good	68.6
Chronic Kidney Disease	55.3
Obesity	75.7
Pedestrian Injuries	19.6
Physical Health Not Good	59.3
Stroke	51.7
Health Risk Behaviors	—
Binge Drinking	61.9
Current Smoker	67.4
No Leisure Time for Physical Activity	62.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	65.5

Elderly	39.0
English Speaking	46.0
Foreign-born	50.5
Outdoor Workers	67.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	23.5
Traffic Density	94.9
Traffic Access	52.6
Other Indices	—
Hardship	22.4
Other Decision Support	—
2016 Voting	44.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	63.0
Healthy Places Index Score for Project Location (b)	77.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health and Equity Evaluation Scorecard not completed.

8. User Changes to Default Data

Screen	Justification
Land Use	85,239 SF warehousing; 170,478 SF of manufacturing; 28,413 SF of office; 600 space parking lot and ~29,934 SF (5%) landscaping on a total of 13.74 gross ac
Construction: Construction Phases	The demolition is scheduled to take place for 8 weeks estimated no sooner than August 2022 to October 2022. New construction is estimated to take place from June 2023 to June 2024.
Construction: Architectural Coatings	SCAQMD Rule 1113 limits paints applied to buildings to 50g/L VOC content.
Operations: Vehicle Data	Trip Gen per rates given in the TIA. Sat and Sun rates from 11th Ed. ITE Trip Gen Manual. W-O trip length increased to 40 miles per SCAQMD recommendations. 20.6 % of warehouse trips (W-O) are truck trips.
Operations: Fleet Mix	Fleet mixed revised per TIA.
Operations: Architectural Coatings	Per SCAQMD Rule 1113 paints applied to buildings limited to 50g/L VOC content.

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2023	HHDT	Aggregate	Aggregate	Gasoline	77.76705152	1555.963167	0	1.13577086	1135.77086	1904593.073	4463.059823	11986522.09	**6.29**	**HHDT**
South Coast	2023	HHDT	Aggregate	Aggregate	Diesel	88939.48335	1354183.938	0	1901.434302	1901434.302		11341687.62			
South Coast	2023	HHDT	Aggregate	Aggregate	Electricity	69.55210742	1090.269168	7969.44745	0	0		4465.990707			
South Coast	2023	HHDT	Aggregate	Aggregate	Natural Gas	9734.51825	62334.09461	0	108.4243363	108424.3363		635905.4264			
South Coast	2023	LDA	Aggregate	Aggregate	Gasoline	5370115.979	25014254.84	0	7560.140191	7560140.191	7688683.513	216250190.4	234402460.7	**30.49**	**LDA**
South Coast	2023	LDA	Aggregate	Aggregate	Diesel	15648.45784	65526.69936	0	11.94439033	11944.39033		486634.8854			
South Coast	2023	LDA	Aggregate	Aggregate	Electricity	241152.5368	1208859.723	4312325.17	0	0		11169438.62			
South Coast	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	136333.5236	563739.1202	971420.6342	116.5989322	116598.9322		6496196.814			
South Coast	2023	LDT1	Aggregate	Aggregate	Gasoline	499113.9009	2195668.394	0	753.4930394	753493.0394	754054.6567	18009866.74	18076073.23	**23.97**	**LDT1**
South Coast	2023	LDT1	Aggregate	Aggregate	Diesel	197.6298759	575.4909742	0	0.161278255	161.278255		3756.265001			
South Coast	2023	LDT1	Aggregate	Aggregate	Electricity	1012.723437	4715.252993	14723.34847	0	0		38135.23576			
South Coast	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	463.9603347	1918.475984	3964.563568	0.400339089	400.3390888		24314.99018			
South Coast	2023	LDT2	Aggregate	Aggregate	Gasoline	2429950.117	11422828.59	0	4340.074795	4340074.795	4365928.785	100292660.9	101911704.2	**23.34**	**LDT2**
South Coast	2023	LDT2	Aggregate	Aggregate	Diesel	7734.815855	37335.71589	0	10.96643985	10966.43985		337920.5463			
South Coast	2023	LDT2	Aggregate	Aggregate	Electricity	11160.73812	57317.98395	159502.5609	0	0		413130.7341			
South Coast	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	17128.65814	70827.00142	136848.0138	14.88755019	14887.55019		867992.1123			
South Coast	2023	LHDT1	Aggregate	Aggregate	Gasoline	200398.3929	2985637.46	0	589.944376	589944.376	795980.0519	7820670.654	12015327.21	**15.10**	**LHDT1**
South Coast	2023	LHDT1	Aggregate	Aggregate	Diesel	99896.36028	1256570.543	0	206.0356758	206035.6758		4194656.56			
South Coast	2023	LHDT2	Aggregate	Aggregate	Gasoline	31213.47663	465034.2937	0	99.14469838	99144.69838	206307.908	1156671.072	2985280.201	**14.47**	**LHDT2**
South Coast	2023	LHDT2	Aggregate	Aggregate	Diesel	43691.53059	549584.4908	0	107.1632097	107163.2097		1828609.129			
South Coast	2023	MCY	Aggregate	Aggregate	Gasoline	237586.076	475172.1521	0	36.88140998	36881.40998	36881.40998	1522726.619	1522726.619	**41.29**	**MCY**
South Coast	2023	MDV	Aggregate	Aggregate	Gasoline	1559902.035	7210563.701	0	3188.051046	3188051.046	3230287.568	60070040.07	61764195.73	**19.12**	**MDV**
South Coast	2023	MDV	Aggregate	Aggregate	Diesel	19613.50466	92462.53217	0	33.91368569	33913.68569		784655.9403			
South Coast	2023	MDV	Aggregate	Aggregate	Electricity	12017.75416	61732.39119	171855.0799	0	0		445125.2375			
South Coast	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	10053.44096	41570.97836	70940.44124	8.322835871	8322.835871		464374.4805			
South Coast	2023	MH	Aggregate	Aggregate	Gasoline	30468.55432	3048.074174	0	59.14587153	59145.87153	70446.99764	287687.7216	401829.5371	**5.70**	**MH**
South Coast	2023	MH	Aggregate	Aggregate	Diesel	11533.11741	1153.311741	0	11.30112611	11301.12611		114141.8155			
South Coast	2023	MHDT	Aggregate	Aggregate	Gasoline	25436.77287	508938.9517	0	266.1846594	266184.6594	808347.4856	1361855.942	6189907.424	**7.66**	**MHDT**
South Coast	2023	MHDT	Aggregate	Aggregate	Diesel	112753.1691	1384256.954	0	542.1628262	542162.8262		4826755.64			
South Coast	2023	MHDT	Aggregate	Aggregate	Electricity	60.14211345	769.7741807	1354.591964	0	0		1295.841104			
South Coast	2023	MHDT	Aggregate	Aggregate	Natural Gas	1405.746156	12603.45034	0	8.268140472	8268.140472		68507.0989			
South Coast	2023	OBUS	Aggregate	Aggregate	Gasoline	5457.340752	109190.4738	0	43.78040647	43780.40647	77110.24352	220170.8028	453397.9409	**5.88**	**OBUS**
South Coast	2023	OBUS	Aggregate	Aggregate	Diesel	2949.128306	37294.91051	0	33.32983706	33329.83706		233227.1381			
South Coast	2023	OBUS	Aggregate	Aggregate	Natural Gas	467.0036657	4156.332625	0	3.280062265	3280.062265		28665.48863			
South Coast	2023	SBUS	Aggregate	Aggregate	Gasoline	2711.533402	10846.13361	0	13.42826072	13428.26072	22892.86276	119164.9071	188479.341	**8.23**	**SBUS**
South Coast	2023	SBUS	Aggregate	Aggregate	Diesel	3377.128927	48900.82686	0	9.464602039	9464.602039		69271.73995			
South Coast	2023	SBUS	Aggregate	Aggregate	Electricity	3.674682915	53.20940862	49.36713892	0	0		42.69400814			
South Coast	2023	SBUS	Aggregate	Aggregate	Natural Gas	2976.329163	43097.24627	0	17.80624767	17806.24767		74753.64709			
South Coast	2023	UBUS	Aggregate	Aggregate	Gasoline	894.3697717	3577.479087	0	14.17067148	14170.67148	204710.9133	96960.55907	694841.5831	**3.39**	**UBUS**
South Coast	2023	UBUS	Aggregate	Aggregate	Diesel	14.61165815	58.44663261	0	0.262644403	262.644403		1749.021883			
South Coast	2023	UBUS	Aggregate	Aggregate	Electricity	58.03212573	232.1285029	5326.224873	0	0		2539.586791			
South Coast	2023	UBUS	Aggregate	Aggregate	Natural Gas	4957.576963	19830.30785	0	190.2775974	190277.5974		593592.4153			

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2024	HHDT	Aggregate	Aggregate	Gasoline	64.44258918	1289.367324	0	1.014953313	1014.953313	2024777.341	4089.563798	12241163.02	**6.05**	**HHDT**
South Coast	2024	HHDT	Aggregate	Aggregate	Diesel	92441.35478	1412165.896	0	1913.394963	1913394.963		11547992.76			
South Coast	2024	HHDT	Aggregate	Aggregate	Electricity	291.6455699	3957.931048	53675.68637	0	0		29968.60823			
South Coast	2024	HHDT	Aggregate	Aggregate	Natural Gas	10239.41118	65591.6649	0	110.3674239	110367.4239		659112.0885			
South Coast	2024	LDA	Aggregate	Aggregate	Gasoline	5306414.643	24694249.92	0	7344.088111	7344088.111	7477826.02	213709568	234427100.1	**31.35**	**LDA**
South Coast	2024	LDA	Aggregate	Aggregate	Diesel	14576.24539	60769.87324	0	10.8801639	10880.1639		447477.6987			
South Coast	2024	LDA	Aggregate	Aggregate	Electricity	278128.8376	1389682.584	5111363.117	0	0		13239042.59			
South Coast	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	148523.7719	614145.7966	1077276.451	122.8577446	122857.7446		7031011.891			
South Coast	2024	LDT1	Aggregate	Aggregate	Gasoline	490973.66	2160511.155	0	732.0519082	732051.9082	732790.8073	17788975.08	17880208.77	**24.40**	**LDT1**
South Coast	2024	LDT1	Aggregate	Aggregate	Diesel	178.9755587	511.7069897	0	0.143610092	143.6100917		3350.970633			
South Coast	2024	LDT1	Aggregate	Aggregate	Electricity	1222.38175	5792.038269	19502.00434	0	0		50512.52673			
South Coast	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	719.1459798	2973.668627	6252.19918	0.595288961	595.288961		37370.18633			
South Coast	2024	LDT2	Aggregate	Aggregate	Gasoline	2478766.891	11657788.42	0	4349.789244	4349789.244	4378677.328	102696789.3	104694804	**23.91**	**LDT2**
South Coast	2024	LDT2	Aggregate	Aggregate	Diesel	8144.015434	39238.54602	0	11.30594953	11305.94953		354089.2658			
South Coast	2024	LDT2	Aggregate	Aggregate	Electricity	16093.72479	82313.84321	227422.9885	0	0		589052.7755			
South Coast	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	21096.29549	87233.18184	170348.4264	17.58213479	17582.13479		1054872.659			
South Coast	2024	LHDT1	Aggregate	Aggregate	Gasoline	200171.2476	2982253.334	0	578.7247685	578724.7685	792458.1109	7891021.12	12336952.39	**15.57**	**LHDT1**
South Coast	2024	LHDT1	Aggregate	Aggregate	Diesel	103884.7559	1306739.542	0	213.7333424	213733.3424		4387648.579			
South Coast	2024	LHDT1	Aggregate	Aggregate	Electricity	772.5188678	10791.59936	32624.15974	0	0		58282.68619			
South Coast	2024	LHDT2	Aggregate	Aggregate	Gasoline	31062.46526	462784.4493	0	96.72139231	96721.39231	208303.4828	1155378.828	3095264.249	**14.86**	**LHDT2**
South Coast	2024	LHDT2	Aggregate	Aggregate	Diesel	45926.82058	577701.627	0	111.5820905	111582.0905		1925592.444			
South Coast	2024	LHDT2	Aggregate	Aggregate	Electricity	199.9520404	2646.759351	8006.869611	0	0		14292.97674			
South Coast	2024	MCY	Aggregate	Aggregate	Gasoline	242059.9929	484119.9858	0	37.44895514	37448.95514	37448.95514	1554780.429	1554780.429	**41.52**	**MCY**
South Coast	2024	MDV	Aggregate	Aggregate	Gasoline	1571312.1	7270009.961	0	3162.700535	3162700.535	3206338.183	60817091.34	62832018.9	**19.60**	**MDV**
South Coast	2024	MDV	Aggregate	Aggregate	Diesel	19826.89781	93051.64962	0	33.54860069	33548.60069		786624.2122			
South Coast	2024	MDV	Aggregate	Aggregate	Electricity	17569.44798	89870.84023	248334.7848	0	0		643216.8322			
South Coast	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	12690.57185	52475.51459	92596.30611	10.08904803	10089.04803		585086.5214			
South Coast	2024	MH	Aggregate	Aggregate	Gasoline	29244.94397	2925.664195	0	57.51222476	57512.22476	68984.14797	279544.6577	395398.9997	**5.73**	**MH**
South Coast	2024	MH	Aggregate	Aggregate	Diesel	11703.55798	1170.355798	0	11.47192321	11471.92321		115854.342			
South Coast	2024	MHDT	Aggregate	Aggregate	Gasoline	24845.17438	497102.249	0	256.9342026	256934.2026	812250.5213	1326417.556	6295601.951	**7.75**	**MHDT**
South Coast	2024	MHDT	Aggregate	Aggregate	Diesel	114693.757	1409921.86	0	546.7152883	546715.2883		4878223.739			
South Coast	2024	MHDT	Aggregate	Aggregate	Electricity	355.3876422	4781.870526	20310.12518	0	0		19393.49808			
South Coast	2024	MHDT	Aggregate	Aggregate	Natural Gas	1491.278079	13281.28453	0	8.601030453	8601.030453		71567.15805			
South Coast	2024	OBUS	Aggregate	Aggregate	Gasoline	5296.379398	105969.959	0	41.44060197	41440.60197	78066.51924	209991.62	473651.4166	**6.07**	**OBUS**
South Coast	2024	OBUS	Aggregate	Aggregate	Diesel	2997.3176	37996.11149	0	33.30106375	33301.06375		233646.4445			
South Coast	2024	OBUS	Aggregate	Aggregate	Electricity	11.86106715	237.3162316	941.3362619	0	0		895.192351			
South Coast	2024	OBUS	Aggregate	Aggregate	Natural Gas	480.7769521	4278.914873	0	3.324853528	3324.853528		29118.15975			
South Coast	2024	SBUS	Aggregate	Aggregate	Gasoline	2763.091965	11052.36786	0	13.6568139	13656.8139	40972.05843	121721.653	266076.6289	**6.49**	**SBUS**
South Coast	2024	SBUS	Aggregate	Aggregate	Diesel	3283.370627	47543.20668	0	9.104107226	9104.107226		66807.29386			
South Coast	2024	SBUS	Aggregate	Aggregate	Electricity	21.89425828	248.8609268	740.8107178	0	0		640.6727128			
South Coast	2024	SBUS	Aggregate	Aggregate	Natural Gas	3093.465789	44793.38463	0	18.21113731	18211.13731		76907.00926			
South Coast	2024	UBUS	Aggregate	Aggregate	Gasoline	894.3284655	3577.313862	0	13.89822542	13898.22542	201736.9577	96953.45183	696232.1909	**3.45**	**UBUS**
South Coast	2024	UBUS	Aggregate	Aggregate	Diesel	14.32857314	57.31429256	0	0.259550733	259.5507326		1721.679298			
South Coast	2024	UBUS	Aggregate	Aggregate	Electricity	109.3235246	437.2940985	19519.17282	0	0		9364.629999			
South Coast	2024	UBUS	Aggregate	Aggregate	Natural Gas	4918.59249	19674.36996	0	187.5791815	187579.1815		588192.4297			

APPENDIX C

HRA DATA AND AERMOD MODEL PRINTOUTS

Emission Assumptions **DPM** Emissions
19260 190th Street Warehouse

Facility Operations

Buildout year: 2024

Emission Factors

1) Onsite Vehicle Emissions

a) Truck

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

(a) Annual Meteorology

Temperature: 66 degF

Relative Humidity: 60%

(b) Calculations for Los Angeles 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

19260 190th Street Warehouse		**Emission:**	**DPM**									
Processes Modeled		**Build-out:**	**2024**									
Onsite delivery traffic												
Truck idling												
Offsite delivery traffic												
Facilities in Operation												
Location	**Truck type**	**Daily trucks**										
Project Site	HHDT	119										
Project Site	MHDT	45										
Project Site	LHDT2	33										
Total		**197**										
Delivery Schedule:												
	24	**hrs/day, 52 weeks/year**										
Emission Factors 1 Year (2024)	**Onsite**	**Offsite**										
	Exhaust	**Exhaust**	**Idle**									
Vehicle Class	**(g/mi)**	**(g/mi)**	**(g/hr)**									
HHDT	0.01217	0.00826	0.01537									
MHDT	0.03833	0.00897	0.07273									
LHDT2	0.05435	0.02193	0.77769									
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)**	
Inbound from Project Driveway 4	HHDT	0.01217	119	243.7	0.15	2.19E-01	2.54E-06	1.74E+00	4.83E-04	8.81E-05		
Inbound from Project Driveway 4	MHDT	0.03833	45	243.7	0.15	2.61E-01	3.02E-06	2.07E+00	5.75E-04	1.05E-04	**8.70E-06**	100% of trucks
Inbound from Project Driveway 4	LHDT2	0.05435	33	243.7	0.15	2.72E-01	3.14E-06	2.15E+00	5.98E-04	1.09E-04		
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 proposed building	HHDT	0.01537	15	60	0.23	2.67E-06	2.12E-05	5.08E-04	9.27E-05			
At proposed building	MHDT	0.07273	15	23	0.42	4.84E-06	3.84E-05	9.21E-04	1.68E-04		4.58E-05	
At proposed building	LHDT2	0.77769	15	17	3.31	3.83E-05	3.03E-04	7.28E-03	1.33E-03		**7.63E-06**	per idling location
												(6 total)

Offsite Roadway Links Modeled

Link	Truck Type	Emission Factor (g/mi)	Round 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)		
Crenshaw Place n/o 190th St to Project Driveway 4	HHDT	0.00826	119	169.2	0.11	1.03E-01	1.20E-06	8.19E-01	2.28E-04	4.15E-05	100% of trucks	
Crenshaw Place n/o 190th St to Project Driveway 4	MHDT	0.00897	45	169.2	0.11	4.24E-02	4.91E-07	3.36E-01	9.34E-05	1.70E-05	**2.57E-06**	
Crenshaw Place n/o 190th St to Project Driveway 4	LHDT2	0.02193	33	169.2	0.11	7.61E-02	8.80E-07	6.03E-01	1.68E-04	3.06E-05		
Crenshaw Blvd n/o Crenshaw Pl	HHDT	0.00826	119	425.9	0.26	2.60E-01	3.01E-06	2.06E+00	5.73E-04	1.05E-04	45% of trucks	
Crenshaw Blvd n/o Crenshaw Pl	MHDT	0.00897	45	425.9	0.26	1.07E-01	1.24E-06	8.46E-01	2.35E-04	4.29E-05	**2.91E-06**	
Crenshaw Blvd n/o Crenshaw Pl	LHDT2	0.02193	33	425.9	0.26	1.91E-01	2.22E-06	1.52E+00	4.22E-04	7.70E-05		
190th St west of Crenshaw Pl	HHDT	0.00826	119	626.5	0.39	3.83E-01	4.43E-06	3.03E+00	8.43E-04	1.54E-04	35% of trucks	
190th St west of Crenshaw Pl	MHDT	0.00897	45	626.5	0.39	1.57E-01	1.82E-06	1.25E+00	3.46E-04	6.31E-05	**3.33E-06**	
190th St west of Crenshaw Pl	LHDT2	0.02193	33	626.5	0.39	2.82E-01	3.26E-06	2.23E+00	6.20E-04	1.13E-04		
190th St east of Crenshaw Pl	HHDT	0.00826	119	1480.1	0.92	9.04E-01	1.05E-05	7.17E+00	1.99E-03	3.63E-04	65% of trucks	
190th St east of Crenshaw Pl	MHDT	0.00897	45	1480.1	0.92	3.71E-01	4.29E-06	2.94E+00	8.17E-04	1.49E-04	**1.46E-05**	
190th St east of Crenshaw Pl	LHDT2	0.02193	33	1480.1	0.92	6.65E-01	7.70E-06	5.28E+00	1.47E-03	2.67E-04		

19260 190th Street Warehouse		**Emission:**	**DPM**									
Processes Modeled		**Build-out:**	**2024**									
Onsite delivery traffic												
Truck idling												
Offsite delivery traffic												
Facilities in Operation												
Location	**Truck type**	**Daily trucks**										
Project Site	HHDT	119										
Project Site	MHDT	45										
Project Site	LHDT2	33										
Total		**197**										
Delivery Schedule:												
	24	**hrs/day, 52weeks/year**										
Emission Factors 2 Year	**Onsite**	**Offsite**										
	Exhaust	**Exhaust**	**Idle**									
Vehicle Class	**(g/mi)**	**(g/mi)**	**(g/hr)**									
HHDT	0.01163	0.00785	0.01428									
MHDT	0.02941	0.00714	0.05503									
LHDT2	0.04865	0.02001	0.77753									
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)**	
Inbound from Project Driveway 4	HHDT	0.01163	119	243.7	0.15	2.09E-01	2.42E-06	1.66E+00	4.61E-04	8.42E-05		
Inbound from Project Driveway 4	MHDT	0.02941	45	243.7	0.15	2.00E-01	2.32E-06	1.59E+00	4.41E-04	8.05E-05	**7.56E-06**	100% of trucks
Inbound from Project Driveway 4	LHDT2	0.04865	33	243.7	0.15	2.43E-01	2.81E-06	1.93E+00	5.35E-04	9.77E-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 proposed building	HHDT	0.01428	15	60	0.21	2.48E-06	1.97E-05	4.72E-04	8.61E-05			
At proposed building	MHDT	0.05503	15	23	0.32	3.66E-06	2.90E-05	6.97E-04	1.27E-04		4.44E-05	
At proposed building	LHDT2	0.77753	15	17	3.30	3.82E-05	3.03E-04	7.28E-03	1.33E-03		**7.40E-06**	per idling location
												(6 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)		
Crenshaw Place n/o 190th St to Project Driveway 4	HHDT	0.00785	119	169.2	0.11	9.82E-02	1.14E-06	7.78E-01	2.16E-04	3.95E-05	100% of trucks	
Crenshaw Place n/o 190th St to Project Driveway 4	MHDT	0.00714	45	169.2	0.11	3.38E-02	3.91E-07	2.68E-01	7.44E-05	1.36E-05	**2.33E-06**	
Crenshaw Place n/o 190th St to Project Driveway 4	LHDT2	0.02001	33	169.2	0.11	6.94E-02	8.03E-07	5.50E-01	1.53E-04	2.79E-05		
Crenshaw Blvd n/o Crenshaw Pl	HHDT	0.00785	119	425.9	0.26	2.47E-01	2.86E-06	1.96E+00	5.44E-04	9.93E-05	45% of trucks	
Crenshaw Blvd n/o Crenshaw Pl	MHDT	0.00714	45	425.9	0.26	8.50E-02	9.84E-07	6.74E-01	1.87E-04	3.42E-05	**2.64E-06**	
Crenshaw Blvd n/o Crenshaw Pl	LHDT2	0.02001	33	425.9	0.26	1.75E-01	2.02E-06	1.39E+00	3.85E-04	7.02E-05		
190th St west of Crenshaw Pl	HHDT	0.00785	119	626.5	0.39	3.63E-01	4.21E-06	2.88E+00	8.01E-04	1.46E-04	35% of trucks	
190th St west of Crenshaw Pl	MHDT	0.00714	45	626.5	0.39	1.25E-01	1.45E-06	9.92E-01	2.76E-04	5.03E-05	**3.02E-06**	
190th St west of Crenshaw Pl	LHDT2	0.02001	33	626.5	0.39	2.57E-01	2.97E-06	2.04E+00	5.66E-04	1.03E-04		
190th St east of Crenshaw Pl	HHDT	0.00785	119	1480.1	0.92	8.59E-01	9.94E-06	6.81E+00	1.89E-03	3.45E-04	65% of trucks	
190th St east of Crenshaw Pl	MHDT	0.00714	45	1480.1	0.92	2.96E-01	3.42E-06	2.34E+00	6.51E-04	1.19E-04	**1.32E-05**	
190th St east of Crenshaw Pl	LHDT2	0.02001	33	1480.1	0.92	6.07E-01	7.03E-06	4.81E+00	1.34E-03	2.44E-04		

19260 190th Street Warehouse		**Emission:**	**DPM**									
Processes Modeled		**Build-out:**	**2024**									
Onsite delivery traffic												
Truck idling												
Offsite delivery traffic												
Facilities in Operation												
Location	**Truck type**	**Daily trucks**										
Project Site	HHDT	119										
Project Site	MHDT	45										
Project Site	LHDT2	33										
Total		**197**										
Delivery Schedule:												
	24	**hrs/day, 52weeks/year**										
Emission Factors 14 Year 2027-2040	**Onsite**	**Offsite**										
	Exhaust	**Exhaust**	**Idle**									
Vehicle Class	**(g/mi)**	**(g/mi)**	**(g/hr)**									
HHDT	0.00948	0.00644	0.01107									
MHDT	0.00993	0.00305	0.01857									
LHDT2	0.03871	0.01716	0.76775									
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)**	
Inbound from Project Driveway 4	HHDT	0.00948	119	243.7	0.15	1.71E-01	1.98E-06	1.35E+00	3.76E-04	6.86E-05		
Inbound from Project Driveway 4	MHDT	0.00993	45	243.7	0.15	6.77E-02	7.83E-07	5.36E-01	1.49E-04	2.72E-05	**5.00E-06**	100% of trucks
Inbound from Project Driveway 4	LHDT2	0.03871	33	243.7	0.15	1.93E-01	2.24E-06	1.53E+00	4.26E-04	7.77E-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 proposed building	HHDT	0.01107	15	60	0.17	1.92E-06	1.52E-05	3.66E-04	6.67E-05			
At proposed building	MHDT	0.01857	15	23	0.11	1.24E-06	9.80E-06	2.35E-04	4.29E-05		4.09E-05	
At proposed building	LHDT2	0.76775	15	17	3.26	3.78E-05	2.99E-04	7.19E-03	1.31E-03		**6.82E-06**	per idling location
												(6 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)		
Crenshaw Place n/o 190th St to Project Driveway 4	HHDT	0.00644	119	169.2	0.11	8.06E-02	9.32E-07	6.39E-01	1.77E-04	3.24E-05	100% of trucks	
Crenshaw Place n/o 190th St to Project Driveway 4	MHDT	0.00305	45	169.2	0.11	1.44E-02	1.67E-07	1.15E-01	3.18E-05	5.81E-06	**1.79E-06**	
Crenshaw Place n/o 190th St to Project Driveway 4	LHDT2	0.01716	33	169.2	0.11	5.95E-02	6.89E-07	4.72E-01	1.31E-04	2.39E-05		
Crenshaw Blvd n/o Crenshaw Pl	HHDT	0.00644	119	425.9	0.26	2.03E-01	2.35E-06	1.61E+00	4.47E-04	8.15E-05	45% of trucks	
Crenshaw Blvd n/o Crenshaw Pl	MHDT	0.00305	45	425.9	0.26	3.64E-02	4.21E-07	2.88E-01	8.01E-05	1.46E-05	**2.03E-06**	
Crenshaw Blvd n/o Crenshaw Pl	LHDT2	0.01716	33	425.9	0.26	1.50E-01	1.73E-06	1.19E+00	3.30E-04	6.02E-05		
190th St west of Crenshaw Pl	HHDT	0.00644	119	626.5	0.39	2.98E-01	3.45E-06	2.37E+00	6.57E-04	1.20E-04	35% of trucks	
190th St west of Crenshaw Pl	MHDT	0.00305	45	626.5	0.39	5.35E-02	6.19E-07	4.24E-01	1.18E-04	2.15E-05	**2.32E-06**	
190th St west of Crenshaw Pl	LHDT2	0.01716	33	626.5	0.39	2.20E-01	2.55E-06	1.75E+00	4.85E-04	8.86E-05		
190th St east of Crenshaw Pl	HHDT	0.00644	119	1480.1	0.92	7.05E-01	8.16E-06	5.59E+00	1.55E-03	2.83E-04	65% of trucks	
190th St east of Crenshaw Pl	MHDT	0.00305	45	1480.1	0.92	1.26E-01	1.46E-06	1.00E+00	2.78E-04	5.08E-05	**1.02E-05**	
190th St east of Crenshaw Pl	LHDT2	0.01716	33	1480.1	0.92	5.21E-01	6.03E-06	4.13E+00	1.15E-03	2.09E-04		

19260 190th Street Warehouse | **Emission:** | **DPM**

Processes Modeled | **Build-out:** | **2024**

Onsite delivery traffic
Truck idling
Offsite delivery traffic

Facilities in Operation

Location	Truck type	Daily trucks
Project Site	HHDT	119
Project Site	MHDT	45
Project Site	LHDT2	33
Total		**197**

Delivery Schedule:

24 **hrs/day, 52weeks/year**

Emission Factors 14 Year 2041-2054

Vehicle Class	Onsite Exhaust (g/mi)	Offsite Exhaust (g/mi)	Idle (g/hr)
HHDT	0.00818	0.00564	0.00973
MHDT	0.00320	0.00151	0.00731
LHDT2	0.03537	0.01654	0.76173

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)	
Inbound from Project Driveway 4	HHDT	0.00818	119	243.7	0.15	1.47E-01	1.71E-06	1.17E+00	3.25E-04	5.93E-05		
Inbound from Project Driveway 4	MHDT	0.00320	45	243.7	0.15	2.18E-02	2.52E-07	1.73E-01	4.80E-05	8.76E-06	**4.00E-06**	100% of trucks
Inbound from Project Driveway 4	LHDT2	0.03537	33	243.7	0.15	1.77E-01	2.05E-06	1.40E+00	3.89E-04	7.10E-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 proposed building	HHDT	0.00973	15	60	0.15	1.69E-06	1.34E-05	3.21E-04	5.87E-05			
At proposed building	MHDT	0.00731	15	23	0.04	4.86E-07	3.86E-06	9.25E-05	1.69E-05		3.96E-05	
At proposed building	LHDT2	0.76173	15	17	3.24	3.75E-05	2.97E-04	7.13E-03	1.30E-03		**6.61E-06**	per idling location
												(6 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)		
Crenshaw Place n/o 190th St to Project Driveway 4	HHDT	0.00564	119	169.2	0.11	7.05E-02	8.16E-07	5.59E-01	1.55E-04	2.83E-05	100% of trucks	
Crenshaw Place n/o 190th St to Project Driveway 4	MHDT	0.00151	45	169.2	0.11	7.16E-03	8.29E-08	5.68E-02	1.58E-05	2.88E-06	**1.56E-06**	
Crenshaw Place n/o 190th St to Project Driveway 4	LHDT2	0.01654	33	169.2	0.11	5.74E-02	6.64E-07	4.55E-01	1.26E-04	2.31E-05		
Crenshaw Blvd n/o Crenshaw Pl	HHDT	0.00564	119	425.9	0.26	1.78E-01	2.05E-06	1.41E+00	3.91E-04	7.14E-05	45% of trucks	
Crenshaw Blvd n/o Crenshaw Pl	MHDT	0.00151	45	425.9	0.26	1.80E-02	2.09E-07	1.43E-01	3.97E-05	7.24E-06	**1.77E-06**	
Crenshaw Blvd n/o Crenshaw Pl	LHDT2	0.01654	33	425.9	0.26	1.44E-01	1.67E-06	1.15E+00	3.18E-04	5.81E-05		
190th St west of Crenshaw Pl	HHDT	0.00564	119	626.5	0.39	2.61E-01	3.02E-06	2.07E+00	5.75E-04	1.05E-04	35% of trucks	
190th St west of Crenshaw Pl	MHDT	0.00151	45	626.5	0.39	2.65E-02	3.07E-07	2.10E-01	5.84E-05	1.07E-05	**2.03E-06**	
190th St west of Crenshaw Pl	LHDT2	0.01654	33	626.5	0.39	2.12E-01	2.46E-06	1.68E+00	4.68E-04	8.54E-05		
190th St east of Crenshaw Pl	HHDT	0.00564	119	1480.1	0.92	6.17E-01	7.14E-06	4.89E+00	1.36E-03	2.48E-04	65% of trucks	
190th St east of Crenshaw Pl	MHDT	0.00151	45	1480.1	0.92	6.26E-02	7.25E-07	4.97E-01	1.38E-04	2.52E-05	**8.89E-06**	
190th St east of Crenshaw Pl	LHDT2	0.01654	33	1480.1	0.92	5.02E-01	5.81E-06	3.98E+00	1.11E-03	2.02E-04		

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** Lakes Environmental AERMOD MPI
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 8/29/2022
** File: C:\Lakes\AERMOD View\190th Street Warehouse 2022\190th Street Warehouse 2022.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 190th St Warehouse OY
   TITLETWO DPM concentrations 2024
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County_Population
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "190th Street Warehouse 2022.err"
CO FINISHED
**
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** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      377355.844  3747399.960       19.110
** DESCRSRC Idling location
   LOCATION STCK2        POINT      377401.539  3747400.698       19.440
** DESCRSRC Idling location
   LOCATION STCK3        POINT      377441.836  3747400.553       19.670
** DESCRSRC Idling location
   LOCATION STCK4        POINT      377471.534  3747400.553       19.860
** DESCRSRC Idling location
   LOCATION STCK5        POINT      377501.780  3747401.729       20.220
** DESCRSRC Idling location
   LOCATION STCK6        POINT      377533.617  3747400.407       20.860
** DESCRSRC Idling location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
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** LINE VOLUME Source ID = SLINE1
** DESCRSRC Crenshaw Place n/o 190th St to Project Driveway 4
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.57E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 3
** 377297.362, 3747254.685, 17.80, 3.50, 4.00
** 377295.861, 3747414.324, 18.60, 3.50, 4.00
** 377304.563, 3747418.225, 18.75, 3.50, 4.00
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   LOCATION L0002060     VOLUME   377297.321 3747258.980 17.88
   LOCATION L0002061     VOLUME   377297.240 3747267.571 17.94
   LOCATION L0002062     VOLUME   377297.160 3747276.161 17.99
   LOCATION L0002063     VOLUME   377297.079 3747284.751 18.05
   LOCATION L0002064     VOLUME   377296.998 3747293.342 18.12
   LOCATION L0002065     VOLUME   377296.918 3747301.932 18.19
   LOCATION L0002066     VOLUME   377296.837 3747310.523 18.26
   LOCATION L0002067     VOLUME   377296.756 3747319.113 18.32
   LOCATION L0002068     VOLUME   377296.675 3747327.703 18.35
   LOCATION L0002069     VOLUME   377296.595 3747336.294 18.37
   LOCATION L0002070     VOLUME   377296.514 3747344.884 18.40
   LOCATION L0002071     VOLUME   377296.433 3747353.475 18.41
   LOCATION L0002072     VOLUME   377296.352 3747362.065 18.43
   LOCATION L0002073     VOLUME   377296.272 3747370.656 18.45
   LOCATION L0002074     VOLUME   377296.191 3747379.246 18.46
   LOCATION L0002075     VOLUME   377296.110 3747387.836 18.51
   LOCATION L0002076     VOLUME   377296.029 3747396.427 18.55
   LOCATION L0002077     VOLUME   377295.949 3747405.017 18.60
   LOCATION L0002078     VOLUME   377295.868 3747413.608 18.69
   LOCATION L0002079     VOLUME   377303.046 3747417.545 18.82
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Along Crenshaw Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.91E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 7
** 377293.151, 3747832.482, 20.50, 3.50, 4.00
** 377294.893, 3747556.492, 19.20, 3.50, 4.00
** 377291.989, 3747510.878, 19.10, 3.50, 4.00
** 377280.190, 3747469.395, 18.69, 3.50, 4.00
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** 377269.273, 3747444.981, 18.73, 3.50, 4.00
** 377264.724, 3747436.843, 18.71, 3.50, 4.00
** 377284.436, 3747421.471, 18.62, 3.50, 4.00
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   LOCATION L0001030     VOLUME   377293.178 3747828.187 20.54
   LOCATION L0001031     VOLUME   377293.232 3747819.596 20.58
   LOCATION L0001032     VOLUME   377293.286 3747811.006 20.62
   LOCATION L0001033     VOLUME   377293.340 3747802.415 20.65
   LOCATION L0001034     VOLUME   377293.395 3747793.824 20.69
   LOCATION L0001035     VOLUME   377293.449 3747785.234 20.73
   LOCATION L0001036     VOLUME   377293.503 3747776.643 20.74
   LOCATION L0001037     VOLUME   377293.557 3747768.052 20.71
   LOCATION L0001038     VOLUME   377293.612 3747759.462 20.69
   LOCATION L0001039     VOLUME   377293.666 3747750.871 20.66
   LOCATION L0001040     VOLUME   377293.720 3747742.281 20.63
   LOCATION L0001041     VOLUME   377293.774 3747733.690 20.61
   LOCATION L0001042     VOLUME   377293.829 3747725.099 20.58
   LOCATION L0001043     VOLUME   377293.883 3747716.509 20.54
   LOCATION L0001044     VOLUME   377293.937 3747707.918 20.47
   LOCATION L0001045     VOLUME   377293.991 3747699.327 20.39
   LOCATION L0001046     VOLUME   377294.046 3747690.737 20.31
   LOCATION L0001047     VOLUME   377294.100 3747682.146 20.24
   LOCATION L0001048     VOLUME   377294.154 3747673.556 20.18
   LOCATION L0001049     VOLUME   377294.208 3747664.965 20.11
   LOCATION L0001050     VOLUME   377294.263 3747656.374 20.05
   LOCATION L0001051     VOLUME   377294.317 3747647.784 19.98
   LOCATION L0001052     VOLUME   377294.371 3747639.193 19.90
   LOCATION L0001053     VOLUME   377294.425 3747630.602 19.83
   LOCATION L0001054     VOLUME   377294.480 3747622.012 19.76
   LOCATION L0001055     VOLUME   377294.534 3747613.421 19.68
   LOCATION L0001056     VOLUME   377294.588 3747604.831 19.61
   LOCATION L0001057     VOLUME   377294.642 3747596.240 19.54
   LOCATION L0001058     VOLUME   377294.697 3747587.649 19.45
   LOCATION L0001059     VOLUME   377294.751 3747579.059 19.37
   LOCATION L0001060     VOLUME   377294.805 3747570.468 19.29
   LOCATION L0001061     VOLUME   377294.859 3747561.877 19.21
   LOCATION L0001062     VOLUME   377294.690 3747553.293 19.18
   LOCATION L0001063     VOLUME   377294.144 3747544.720 19.14
   LOCATION L0001064     VOLUME   377293.598 3747536.146 19.10
   LOCATION L0001065     VOLUME   377293.052 3747527.573 19.08
   LOCATION L0001066     VOLUME   377292.506 3747518.999 19.09
   LOCATION L0001067     VOLUME   377291.865 3747510.442 19.09
   LOCATION L0001068     VOLUME   377289.515 3747502.179 18.99
   LOCATION L0001069     VOLUME   377287.164 3747493.916 18.86
   LOCATION L0001070     VOLUME   377284.814 3747485.653 18.75
   LOCATION L0001071     VOLUME   377282.464 3747477.390 18.68
   LOCATION L0001072     VOLUME   377280.076 3747469.141 18.66
   LOCATION L0001073     VOLUME   377276.569 3747461.298 18.67
   LOCATION L0001074     VOLUME   377273.062 3747453.456 18.68
   LOCATION L0001075     VOLUME   377269.555 3747445.613 18.71
   LOCATION L0001076     VOLUME   377265.419 3747438.087 18.66
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   LOCATION L0001077     VOLUME   377270.374 3747432.437 18.74
   LOCATION L0001078     VOLUME   377277.149 3747427.154 18.76
   LOCATION L0001079     VOLUME   377283.923 3747421.871 18.75
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC 190th St w/o Crenshaw Pl
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.33E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 2
** 377295.985, 3747243.230, 17.85, 3.50, 4.00
** 376669.444, 3747243.719, 20.20, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0001643     VOLUME   377291.689 3747243.233 17.83
   LOCATION L0001644     VOLUME   377283.098 3747243.240 17.80
   LOCATION L0001645     VOLUME   377274.508 3747243.247 17.79
   LOCATION L0001646     VOLUME   377265.917 3747243.253 17.77
   LOCATION L0001647     VOLUME   377257.326 3747243.260 17.73
   LOCATION L0001648     VOLUME   377248.735 3747243.267 17.70
   LOCATION L0001649     VOLUME   377240.145 3747243.274 17.66
   LOCATION L0001650     VOLUME   377231.554 3747243.280 17.76
   LOCATION L0001651     VOLUME   377222.963 3747243.287 17.87
   LOCATION L0001652     VOLUME   377214.372 3747243.294 17.98
   LOCATION L0001653     VOLUME   377205.781 3747243.300 17.98
   LOCATION L0001654     VOLUME   377197.191 3747243.307 17.97
   LOCATION L0001655     VOLUME   377188.600 3747243.314 17.95
   LOCATION L0001656     VOLUME   377180.009 3747243.320 18.00
   LOCATION L0001657     VOLUME   377171.418 3747243.327 18.04
   LOCATION L0001658     VOLUME   377162.827 3747243.334 18.08
   LOCATION L0001659     VOLUME   377154.237 3747243.341 18.18
   LOCATION L0001660     VOLUME   377145.646 3747243.347 18.29
   LOCATION L0001661     VOLUME   377137.055 3747243.354 18.39
   LOCATION L0001662     VOLUME   377128.464 3747243.361 18.39
   LOCATION L0001663     VOLUME   377119.873 3747243.367 18.40
   LOCATION L0001664     VOLUME   377111.283 3747243.374 18.40
   LOCATION L0001665     VOLUME   377102.692 3747243.381 18.43
   LOCATION L0001666     VOLUME   377094.101 3747243.387 18.46
   LOCATION L0001667     VOLUME   377085.510 3747243.394 18.49
   LOCATION L0001668     VOLUME   377076.919 3747243.401 18.53
   LOCATION L0001669     VOLUME   377068.329 3747243.408 18.58
   LOCATION L0001670     VOLUME   377059.738 3747243.414 18.62
   LOCATION L0001671     VOLUME   377051.147 3747243.421 18.66
   LOCATION L0001672     VOLUME   377042.556 3747243.428 18.70
   LOCATION L0001673     VOLUME   377033.965 3747243.434 18.74
   LOCATION L0001674     VOLUME   377025.375 3747243.441 18.80
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   LOCATION L0001675     VOLUME   377016.784 3747243.448 18.87
   LOCATION L0001676     VOLUME   377008.193 3747243.455 18.93
   LOCATION L0001677     VOLUME   376999.602 3747243.461 18.87
   LOCATION L0001678     VOLUME   376991.011 3747243.468 18.81
   LOCATION L0001679     VOLUME   376982.421 3747243.475 18.75
   LOCATION L0001680     VOLUME   376973.830 3747243.481 18.86
   LOCATION L0001681     VOLUME   376965.239 3747243.488 18.97
   LOCATION L0001682     VOLUME   376956.648 3747243.495 19.08
   LOCATION L0001683     VOLUME   376948.057 3747243.501 19.08
   LOCATION L0001684     VOLUME   376939.467 3747243.508 19.07
   LOCATION L0001685     VOLUME   376930.876 3747243.515 19.07
   LOCATION L0001686     VOLUME   376922.285 3747243.522 19.10
   LOCATION L0001687     VOLUME   376913.694 3747243.528 19.13
   LOCATION L0001688     VOLUME   376905.103 3747243.535 19.16
   LOCATION L0001689     VOLUME   376896.513 3747243.542 19.22
   LOCATION L0001690     VOLUME   376887.922 3747243.548 19.29
   LOCATION L0001691     VOLUME   376879.331 3747243.555 19.35
   LOCATION L0001692     VOLUME   376870.740 3747243.562 19.35
   LOCATION L0001693     VOLUME   376862.149 3747243.568 19.36
   LOCATION L0001694     VOLUME   376853.559 3747243.575 19.37
   LOCATION L0001695     VOLUME   376844.968 3747243.582 19.38
   LOCATION L0001696     VOLUME   376836.377 3747243.589 19.40
   LOCATION L0001697     VOLUME   376827.786 3747243.595 19.41
   LOCATION L0001698     VOLUME   376819.195 3747243.602 19.45
   LOCATION L0001699     VOLUME   376810.605 3747243.609 19.48
   LOCATION L0001700     VOLUME   376802.014 3747243.615 19.51
   LOCATION L0001701     VOLUME   376793.423 3747243.622 19.50
   LOCATION L0001702     VOLUME   376784.832 3747243.629 19.49
   LOCATION L0001703     VOLUME   376776.241 3747243.635 19.48
   LOCATION L0001704     VOLUME   376767.651 3747243.642 19.55
   LOCATION L0001705     VOLUME   376759.060 3747243.649 19.62
   LOCATION L0001706     VOLUME   376750.469 3747243.656 19.68
   LOCATION L0001707     VOLUME   376741.878 3747243.662 19.70
   LOCATION L0001708     VOLUME   376733.287 3747243.669 19.71
   LOCATION L0001709     VOLUME   376724.697 3747243.676 19.73
   LOCATION L0001710     VOLUME   376716.106 3747243.682 19.79
   LOCATION L0001711     VOLUME   376707.515 3747243.689 19.85
   LOCATION L0001712     VOLUME   376698.924 3747243.696 19.92
   LOCATION L0001713     VOLUME   376690.333 3747243.702 19.98
   LOCATION L0001714     VOLUME   376681.743 3747243.709 20.04
   LOCATION L0001715     VOLUME   376673.152 3747243.716 20.11
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC 190th St East of Crenshaw Pl
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0000146
** Elevated
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** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 2
** 377296.267, 3747243.318, 17.85, 3.50, 4.00
** 378776.369, 3747244.103, 17.97, 3.50, 4.00
** ------------------------------------------------------------------
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   LOCATION L0001889     VOLUME   377309.153 3747243.324 18.04
   LOCATION L0001890     VOLUME   377317.744 3747243.329 18.14
   LOCATION L0001891     VOLUME   377326.334 3747243.334 18.24
   LOCATION L0001892     VOLUME   377334.925 3747243.338 18.34
   LOCATION L0001893     VOLUME   377343.516 3747243.343 18.43
   LOCATION L0001894     VOLUME   377352.107 3747243.347 18.53
   LOCATION L0001895     VOLUME   377360.698 3747243.352 18.62
   LOCATION L0001896     VOLUME   377369.288 3747243.356 18.71
   LOCATION L0001897     VOLUME   377377.879 3747243.361 18.77
   LOCATION L0001898     VOLUME   377386.470 3747243.366 18.82
   LOCATION L0001899     VOLUME   377395.061 3747243.370 18.89
   LOCATION L0001900     VOLUME   377403.652 3747243.375 19.03
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   LOCATION L0001903     VOLUME   377429.424 3747243.388 19.39
   LOCATION L0001904     VOLUME   377438.015 3747243.393 19.48
   LOCATION L0001905     VOLUME   377446.606 3747243.397 19.57
   LOCATION L0001906     VOLUME   377455.196 3747243.402 19.66
   LOCATION L0001907     VOLUME   377463.787 3747243.407 19.74
   LOCATION L0001908     VOLUME   377472.378 3747243.411 19.80
   LOCATION L0001909     VOLUME   377480.969 3747243.416 19.79
   LOCATION L0001910     VOLUME   377489.560 3747243.420 19.78
   LOCATION L0001911     VOLUME   377498.150 3747243.425 19.76
   LOCATION L0001912     VOLUME   377506.741 3747243.429 19.71
   LOCATION L0001913     VOLUME   377515.332 3747243.434 19.66
   LOCATION L0001914     VOLUME   377523.923 3747243.438 19.62
   LOCATION L0001915     VOLUME   377532.514 3747243.443 19.58
   LOCATION L0001916     VOLUME   377541.104 3747243.448 19.54
   LOCATION L0001917     VOLUME   377549.695 3747243.452 19.51
   LOCATION L0001918     VOLUME   377558.286 3747243.457 19.49
   LOCATION L0001919     VOLUME   377566.877 3747243.461 19.46
   LOCATION L0001920     VOLUME   377575.468 3747243.466 19.42
   LOCATION L0001921     VOLUME   377584.058 3747243.470 19.35
   LOCATION L0001922     VOLUME   377592.649 3747243.475 19.28
   LOCATION L0001923     VOLUME   377601.240 3747243.480 19.22
   LOCATION L0001924     VOLUME   377609.831 3747243.484 19.19
   LOCATION L0001925     VOLUME   377618.422 3747243.489 19.16
   LOCATION L0001926     VOLUME   377627.012 3747243.493 19.12
   LOCATION L0001927     VOLUME   377635.603 3747243.498 19.08
   LOCATION L0001928     VOLUME   377644.194 3747243.502 19.03
   LOCATION L0001929     VOLUME   377652.785 3747243.507 18.98
   LOCATION L0001930     VOLUME   377661.376 3747243.511 18.92
   LOCATION L0001931     VOLUME   377669.966 3747243.516 18.86
   LOCATION L0001932     VOLUME   377678.557 3747243.521 18.80
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LOCATION L0001933     VOLUME   377687.148 3747243.525 18.77
LOCATION L0001934     VOLUME   377695.739 3747243.530 18.74
LOCATION L0001935     VOLUME   377704.330 3747243.534 18.70
LOCATION L0001936     VOLUME   377712.920 3747243.539 18.64
LOCATION L0001937     VOLUME   377721.511 3747243.543 18.58
LOCATION L0001938     VOLUME   377730.102 3747243.548 18.52
LOCATION L0001939     VOLUME   377738.693 3747243.552 18.47
LOCATION L0001940     VOLUME   377747.284 3747243.557 18.42
LOCATION L0001941     VOLUME   377755.874 3747243.562 18.36
LOCATION L0001942     VOLUME   377764.465 3747243.566 18.30
LOCATION L0001943     VOLUME   377773.056 3747243.571 18.23
LOCATION L0001944     VOLUME   377781.647 3747243.575 18.18
LOCATION L0001945     VOLUME   377790.238 3747243.580 18.19
LOCATION L0001946     VOLUME   377798.828 3747243.584 18.20
LOCATION L0001947     VOLUME   377807.419 3747243.589 18.22
LOCATION L0001948     VOLUME   377816.010 3747243.593 18.23
LOCATION L0001949     VOLUME   377824.601 3747243.598 18.25
LOCATION L0001950     VOLUME   377833.192 3747243.603 18.26
LOCATION L0001951     VOLUME   377841.782 3747243.607 18.26
LOCATION L0001952     VOLUME   377850.373 3747243.612 18.26
LOCATION L0001953     VOLUME   377858.964 3747243.616 18.28
LOCATION L0001954     VOLUME   377867.555 3747243.621 18.34
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LOCATION L0001957     VOLUME   377893.327 3747243.635 18.51
LOCATION L0001958     VOLUME   377901.918 3747243.639 18.57
LOCATION L0001959     VOLUME   377910.509 3747243.644 18.63
LOCATION L0001960     VOLUME   377919.100 3747243.648 18.68
LOCATION L0001961     VOLUME   377927.690 3747243.653 18.74
LOCATION L0001962     VOLUME   377936.281 3747243.657 18.82
LOCATION L0001963     VOLUME   377944.872 3747243.662 18.94
LOCATION L0001964     VOLUME   377953.463 3747243.666 19.07
LOCATION L0001965     VOLUME   377962.054 3747243.671 19.15
LOCATION L0001966     VOLUME   377970.644 3747243.676 19.14
LOCATION L0001967     VOLUME   377979.235 3747243.680 19.12
LOCATION L0001968     VOLUME   377987.826 3747243.685 19.13
LOCATION L0001969     VOLUME   377996.417 3747243.689 19.16
LOCATION L0001970     VOLUME   378005.007 3747243.694 19.20
LOCATION L0001971     VOLUME   378013.598 3747243.698 19.24
LOCATION L0001972     VOLUME   378022.189 3747243.703 19.29
LOCATION L0001973     VOLUME   378030.780 3747243.707 19.34
LOCATION L0001974     VOLUME   378039.371 3747243.712 19.41
LOCATION L0001975     VOLUME   378047.961 3747243.717 19.51
LOCATION L0001976     VOLUME   378056.552 3747243.721 19.62
LOCATION L0001977     VOLUME   378065.143 3747243.726 19.70
LOCATION L0001978     VOLUME   378073.734 3747243.730 19.71
LOCATION L0001979     VOLUME   378082.325 3747243.735 19.72
LOCATION L0001980     VOLUME   378090.915 3747243.739 19.75
LOCATION L0001981     VOLUME   378099.506 3747243.744 19.80
LOCATION L0001982     VOLUME   378108.097 3747243.749 19.86
LOCATION L0001983     VOLUME   378116.688 3747243.753 19.89
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LOCATION L0001984     VOLUME   378125.279 3747243.758 19.89
LOCATION L0001985     VOLUME   378133.869 3747243.762 19.89
LOCATION L0001986     VOLUME   378142.460 3747243.767 19.89
LOCATION L0001987     VOLUME   378151.051 3747243.771 19.89
LOCATION L0001988     VOLUME   378159.642 3747243.776 19.88
LOCATION L0001989     VOLUME   378168.233 3747243.780 19.84
LOCATION L0001990     VOLUME   378176.823 3747243.785 19.76
LOCATION L0001991     VOLUME   378185.414 3747243.790 19.68
LOCATION L0001992     VOLUME   378194.005 3747243.794 19.64
LOCATION L0001993     VOLUME   378202.596 3747243.799 19.66
LOCATION L0001994     VOLUME   378211.187 3747243.803 19.69
LOCATION L0001995     VOLUME   378219.777 3747243.808 19.70
LOCATION L0001996     VOLUME   378228.368 3747243.812 19.68
LOCATION L0001997     VOLUME   378236.959 3747243.817 19.67
LOCATION L0001998     VOLUME   378245.550 3747243.821 19.61
LOCATION L0001999     VOLUME   378254.141 3747243.826 19.50
LOCATION L0002000     VOLUME   378262.731 3747243.831 19.39
LOCATION L0002001     VOLUME   378271.322 3747243.835 19.34
LOCATION L0002002     VOLUME   378279.913 3747243.840 19.38
LOCATION L0002003     VOLUME   378288.504 3747243.844 19.42
LOCATION L0002004     VOLUME   378297.095 3747243.849 19.44
LOCATION L0002005     VOLUME   378305.685 3747243.853 19.44
LOCATION L0002006     VOLUME   378314.276 3747243.858 19.43
LOCATION L0002007     VOLUME   378322.867 3747243.862 19.40
LOCATION L0002008     VOLUME   378331.458 3747243.867 19.34
LOCATION L0002009     VOLUME   378340.049 3747243.872 19.29
LOCATION L0002010     VOLUME   378348.639 3747243.876 19.25
LOCATION L0002011     VOLUME   378357.230 3747243.881 19.24
LOCATION L0002012     VOLUME   378365.821 3747243.885 19.22
LOCATION L0002013     VOLUME   378374.412 3747243.890 19.21
LOCATION L0002014     VOLUME   378383.003 3747243.894 19.21
LOCATION L0002015     VOLUME   378391.593 3747243.899 19.20
LOCATION L0002016     VOLUME   378400.184 3747243.904 19.16
LOCATION L0002017     VOLUME   378408.775 3747243.908 19.09
LOCATION L0002018     VOLUME   378417.366 3747243.913 19.01
LOCATION L0002019     VOLUME   378425.957 3747243.917 19.01
LOCATION L0002020     VOLUME   378434.547 3747243.922 19.10
LOCATION L0002021     VOLUME   378443.138 3747243.926 19.18
LOCATION L0002022     VOLUME   378451.729 3747243.931 19.21
LOCATION L0002023     VOLUME   378460.320 3747243.935 19.20
LOCATION L0002024     VOLUME   378468.911 3747243.940 19.19
LOCATION L0002025     VOLUME   378477.501 3747243.945 19.16
LOCATION L0002026     VOLUME   378486.092 3747243.949 19.09
LOCATION L0002027     VOLUME   378494.683 3747243.954 19.02
LOCATION L0002028     VOLUME   378503.274 3747243.958 18.96
LOCATION L0002029     VOLUME   378511.865 3747243.963 18.92
LOCATION L0002030     VOLUME   378520.455 3747243.967 18.89
LOCATION L0002031     VOLUME   378529.046 3747243.972 18.85
LOCATION L0002032     VOLUME   378537.637 3747243.976 18.82
LOCATION L0002033     VOLUME   378546.228 3747243.981 18.78
LOCATION L0002034     VOLUME   378554.819 3747243.986 18.74
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   LOCATION L0002035     VOLUME   378563.409 3747243.990 18.68
   LOCATION L0002036     VOLUME   378572.000 3747243.995 18.62
   LOCATION L0002037     VOLUME   378580.591 3747243.999 18.61
   LOCATION L0002038     VOLUME   378589.182 3747244.004 18.64
   LOCATION L0002039     VOLUME   378597.773 3747244.008 18.68
   LOCATION L0002040     VOLUME   378606.363 3747244.013 18.70
   LOCATION L0002041     VOLUME   378614.954 3747244.018 18.71
   LOCATION L0002042     VOLUME   378623.545 3747244.022 18.71
   LOCATION L0002043     VOLUME   378632.136 3747244.027 18.68
   LOCATION L0002044     VOLUME   378640.727 3747244.031 18.62
   LOCATION L0002045     VOLUME   378649.317 3747244.036 18.55
   LOCATION L0002046     VOLUME   378657.908 3747244.040 18.49
   LOCATION L0002047     VOLUME   378666.499 3747244.045 18.42
   LOCATION L0002048     VOLUME   378675.090 3747244.049 18.36
   LOCATION L0002049     VOLUME   378683.681 3747244.054 18.34
   LOCATION L0002050     VOLUME   378692.271 3747244.059 18.35
   LOCATION L0002051     VOLUME   378700.862 3747244.063 18.37
   LOCATION L0002052     VOLUME   378709.453 3747244.068 18.37
   LOCATION L0002053     VOLUME   378718.044 3747244.072 18.36
   LOCATION L0002054     VOLUME   378726.635 3747244.077 18.35
   LOCATION L0002055     VOLUME   378735.225 3747244.081 18.31
   LOCATION L0002056     VOLUME   378743.816 3747244.086 18.25
   LOCATION L0002057     VOLUME   378752.407 3747244.090 18.19
   LOCATION L0002058     VOLUME   378760.998 3747244.095 18.14
   LOCATION L0002059     VOLUME   378769.589 3747244.100 18.11
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Onsite trucks
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.7E-06
** Elevated
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 3
** 377312.183, 3747418.955, 18.85, 3.50, 4.00
** 377322.274, 3747421.707, 18.89, 3.50, 4.00
** 377555.500, 3747423.313, 20.67, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0002080     VOLUME   377316.327 3747420.086 18.98
   LOCATION L0002081     VOLUME   377324.701 3747421.724 19.03
   LOCATION L0002082     VOLUME   377333.291 3747421.783 19.06
   LOCATION L0002083     VOLUME   377341.882 3747421.842 19.09
   LOCATION L0002084     VOLUME   377350.473 3747421.901 19.15
   LOCATION L0002085     VOLUME   377359.063 3747421.961 19.23
   LOCATION L0002086     VOLUME   377367.654 3747422.020 19.30
   LOCATION L0002087     VOLUME   377376.244 3747422.079 19.37
   LOCATION L0002088     VOLUME   377384.835 3747422.138 19.42
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   LOCATION L0002089     VOLUME   377393.426 3747422.197 19.48
   LOCATION L0002090     VOLUME   377402.016 3747422.256 19.54
   LOCATION L0002091     VOLUME   377410.607 3747422.315 19.59
   LOCATION L0002092     VOLUME   377419.197 3747422.375 19.65
   LOCATION L0002093     VOLUME   377427.788 3747422.434 19.71
   LOCATION L0002094     VOLUME   377436.379 3747422.493 19.77
   LOCATION L0002095     VOLUME   377444.969 3747422.552 19.84
   LOCATION L0002096     VOLUME   377453.560 3747422.611 19.89
   LOCATION L0002097     VOLUME   377462.150 3747422.670 19.94
   LOCATION L0002098     VOLUME   377470.741 3747422.729 19.99
   LOCATION L0002099     VOLUME   377479.331 3747422.788 20.05
   LOCATION L0002100     VOLUME   377487.922 3747422.848 20.12
   LOCATION L0002101     VOLUME   377496.513 3747422.907 20.18
   LOCATION L0002102     VOLUME   377505.103 3747422.966 20.22
   LOCATION L0002103     VOLUME   377513.694 3747423.025 20.24
   LOCATION L0002104     VOLUME   377522.284 3747423.084 20.26
   LOCATION L0002105     VOLUME   377530.875 3747423.143 20.35
   LOCATION L0002106     VOLUME   377539.466 3747423.202 20.47
   LOCATION L0002107     VOLUME   377548.056 3747423.261 20.59
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
   SRCPARAM STCK1         7.63E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK2         7.63E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK3         7.63E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK4         7.63E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK5         7.63E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK6         7.63E-06     3.500   366.000  51.90000     0.091
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0002060     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002061     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002062     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002063     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002064     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002065     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002066     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002067     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002068     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002069     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002070     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002071     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002072     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002073     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002074     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002075     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002076     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002077     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002078     0.0000001285      3.50      4.00      1.63
   SRCPARAM L0002079     0.0000001285      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001030     0.0000000582      3.50      4.00      1.63
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   SRCPARAM L0001031     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001032     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001033     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001034     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001035     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001036     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001037     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001038     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001039     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001040     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001041     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001042     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001043     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001044     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001045     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001046     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001047     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001048     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001049     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001050     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001051     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001052     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001053     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001054     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001055     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001056     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001057     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001058     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001059     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001060     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001061     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001062     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001063     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001064     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001065     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001066     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001067     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001068     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001069     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001070     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001071     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001072     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001073     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001074     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001075     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001076     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001077     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001078     0.0000000582      3.50      4.00      1.63
   SRCPARAM L0001079     0.0000000582      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE3
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SRCPARAM L0001643     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001644     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001645     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001646     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001647     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001648     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001649     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001650     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001651     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001652     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001653     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001654     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001655     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001656     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001657     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001658     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001659     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001660     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001661     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001662     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001663     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001664     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001665     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001666     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001667     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001668     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001669     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001670     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001671     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001672     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001673     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001674     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001675     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001676     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001677     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001678     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001679     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001680     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001681     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001682     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001683     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001684     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001685     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001686     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001687     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001688     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001689     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001690     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001691     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001692     0.00000004562      3.50      4.00      1.63
SRCPARAM L0001693     0.00000004562      3.50      4.00      1.63
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   SRCPARAM L0001694     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001695     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001696     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001697     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001698     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001699     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001700     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001701     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001702     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001703     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001704     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001705     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001706     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001707     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001708     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001709     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001710     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001711     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001712     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001713     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001714     0.00000004562      3.50      4.00      1.63
   SRCPARAM L0001715     0.00000004562      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0001888     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001889     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001890     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001891     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001892     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001893     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001894     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001895     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001896     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001897     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001898     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001899     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001900     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001901     0.00000008488      3.50      4.00      1.63
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   SRCPARAM L0001903     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001904     0.00000008488      3.50      4.00      1.63
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   SRCPARAM L0001906     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001907     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001908     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001909     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001910     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001911     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001912     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001913     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0001914     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0001918     0.00000008488      3.50      4.00      1.63
SRCPARAM L0001919     0.00000008488      3.50      4.00      1.63
SRCPARAM L0001920     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0001938     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0001948     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0001961     0.00000008488      3.50      4.00      1.63
SRCPARAM L0001962     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0001965     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0001971     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0002002     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002003     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002004     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002005     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002006     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002007     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002008     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0002011     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002012     0.00000008488      3.50      4.00      1.63
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SRCPARAM L0002014     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002015     0.00000008488      3.50      4.00      1.63
SRCPARAM L0002016     0.00000008488      3.50      4.00      1.63
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   SRCPARAM L0002023     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0002024     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0002025     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0002026     0.00000008488      3.50      4.00      1.63
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   SRCPARAM L0002031     0.00000008488      3.50      4.00      1.63
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   SRCPARAM L0002056     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0002057     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0002058     0.00000008488      3.50      4.00      1.63
   SRCPARAM L0002059     0.00000008488      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002080     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002081     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002082     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002083     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002084     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002085     0.0000003107      3.50      4.00      5.10
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   SRCPARAM L0002086     0.0000003107      3.50      4.00      5.10
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   SRCPARAM L0002088     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002089     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002090     0.0000003107      3.50      4.00      5.10
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   SRCPARAM L0002092     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002093     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002094     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002095     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002096     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002097     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002098     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002099     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002100     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002101     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002102     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002103     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002104     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002105     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002106     0.0000003107      3.50      4.00      5.10
   SRCPARAM L0002107     0.0000003107      3.50      4.00      5.10
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
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   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
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BUILDHGT STCK4          10.97    10.97    10.97    10.97    10.97    10.97

BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK5          10.97    10.97    10.97    10.97    10.97    10.97

BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97
BUILDHGT STCK6          10.97    10.97    10.97    10.97    10.97    10.97

BUILDWID STCK1         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK1         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK1         249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK1         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK1         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK1         249.87   265.99   274.04   273.76   265.16   249.91

BUILDWID STCK2         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK2         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK2         249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK2         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK2         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK2         249.87   265.99   274.04   273.76   265.16   249.91

BUILDWID STCK3         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK3         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK3         249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK3         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK3         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK3         249.87   265.99   274.04   273.76   265.16   249.91

BUILDWID STCK4         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK4         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK4         249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK4         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK4         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK4         249.87   265.99   274.04   273.76   265.16   249.91

BUILDWID STCK5         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK5         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK5         249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK5         257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK5         174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK5         249.87   265.99   274.04   273.76   265.16   249.91
```

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BUILDWID STCK6          257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK6          174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK6          249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK6          257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK6          174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK6          249.87   265.99   274.04   273.76   265.16   249.91

BUILDLEN STCK1          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK1          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK1          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK1          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK1          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK1          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK2          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK2          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK2          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK2          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK2          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK2          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK3          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK3          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK3          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK3          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK3          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK3          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK4          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK4          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK4          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK4          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK4          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK4          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK5          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK5          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK5          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK5          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK5          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK5          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK6          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK6          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK6          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK6          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK6          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK6          249.40   231.30   206.18   174.78   138.08   117.90

XBADJ    STCK1         -105.24  -105.31  -102.18   -95.95   -86.80   -75.02
XBADJ    STCK1          -60.95   -45.04   -28.22   -27.12   -25.20   -22.52
```

XBADJ	STCK1	-19.15	-15.20	-10.78	-6.04	-1.12	-15.93
XBADJ	STCK1	-53.78	-90.24	-123.96	-153.91	-179.19	-199.02
XBADJ	STCK1	-212.80	-220.12	-221.69	-230.07	-237.35	-237.41
XBADJ	STCK1	-230.25	-216.11	-195.39	-168.74	-136.96	-101.97
XBADJ	STCK2	-113.90	-121.64	-125.67	-125.89	-122.29	-114.96
XBADJ	STCK2	-104.15	-90.17	-73.92	-72.00	-67.90	-61.73
XBADJ	STCK2	-53.68	-44.01	-32.99	-20.98	-8.33	-15.19
XBADJ	STCK2	-45.12	-73.92	-100.47	-123.97	-143.71	-159.07
XBADJ	STCK2	-169.61	-174.99	-175.99	-185.20	-194.66	-198.20
XBADJ	STCK2	-195.72	-187.30	-173.18	-153.80	-129.75	-102.71
XBADJ	STCK3	-120.75	-135.28	-145.69	-151.68	-153.06	-149.79
XBADJ	STCK3	-141.97	-129.83	-114.22	-111.72	-105.82	-96.70
XBADJ	STCK3	-84.65	-70.03	-53.27	-34.90	-15.47	-15.34
XBADJ	STCK3	-38.27	-60.28	-80.45	-98.18	-112.93	-124.25
XBADJ	STCK3	-131.79	-135.32	-135.69	-145.48	-156.73	-163.22
XBADJ	STCK3	-164.75	-161.28	-152.90	-139.88	-122.61	-102.56
XBADJ	STCK4	-125.91	-145.43	-160.54	-170.77	-175.81	-175.50
XBADJ	STCK4	-169.87	-159.07	-143.91	-140.95	-133.72	-122.41
XBADJ	STCK4	-107.39	-89.11	-68.12	-45.06	-20.63	-15.34
XBADJ	STCK4	-33.11	-50.12	-65.61	-79.10	-90.19	-98.53
XBADJ	STCK4	-103.89	-106.09	-106.00	-116.24	-128.83	-137.51
XBADJ	STCK4	-142.01	-142.19	-138.06	-129.73	-117.45	-102.56
XBADJ	STCK5	-132.32	-156.89	-176.69	-191.12	-199.74	-202.29
XBADJ	STCK5	-198.70	-189.07	-174.16	-170.54	-161.74	-148.02
XBADJ	STCK5	-129.81	-107.65	-82.22	-54.29	-24.72	-14.16
XBADJ	STCK5	-26.70	-38.67	-49.46	-58.75	-66.26	-71.75
XBADJ	STCK5	-75.06	-76.09	-75.75	-86.66	-100.81	-111.90
XBADJ	STCK5	-119.60	-123.65	-123.95	-120.49	-113.36	-103.74
XBADJ	STCK6	-136.55	-166.54	-191.46	-210.57	-223.28	-229.20
XBADJ	STCK6	-228.16	-220.19	-206.00	-202.13	-192.11	-176.26
XBADJ	STCK6	-155.05	-129.13	-99.28	-66.42	-31.55	-15.48
XBADJ	STCK6	-22.47	-29.02	-34.68	-39.30	-42.71	-44.83
XBADJ	STCK6	-45.59	-44.96	-43.91	-55.07	-70.44	-83.67
XBADJ	STCK6	-94.36	-102.18	-106.89	-108.36	-106.53	-102.42
YBADJ	STCK1	-101.47	-106.07	-107.44	-105.55	-100.45	-92.30
YBADJ	STCK1	-81.35	-67.92	-43.02	-25.73	-7.53	10.89
YBADJ	STCK1	28.98	46.19	62.00	75.93	87.54	96.74
YBADJ	STCK1	101.47	106.07	107.44	105.55	100.45	92.30
YBADJ	STCK1	81.35	67.92	43.02	25.73	7.53	-10.89
YBADJ	STCK1	-28.98	-46.19	-62.00	-75.93	-87.54	-96.74
YBADJ	STCK2	-56.60	-63.38	-68.24	-71.02	-71.65	-70.09
YBADJ	STCK2	-66.41	-60.71	-43.76	-34.39	-23.86	-12.60
YBADJ	STCK2	-0.96	10.71	22.05	32.73	42.41	51.04
YBADJ	STCK2	56.60	63.38	68.24	71.02	71.65	70.09

```
   YBADJ    STCK2           66.41    60.71    43.76    34.39    23.86    12.60
   YBADJ    STCK2            0.96   -10.71   -22.05   -32.73   -42.41   -51.04

   YBADJ    STCK3          -16.88   -25.46   -33.26   -40.05   -45.63   -49.81
   YBADJ    STCK3          -52.49   -53.57   -43.61   -41.24   -37.50   -32.62
   YBADJ    STCK3          -26.75   -20.07   -12.77    -5.09     2.75    10.74
   YBADJ    STCK3           16.88    25.46    33.26    40.05    45.63    49.81
   YBADJ    STCK3           52.49    53.57    43.61    41.24    37.50    32.62
   YBADJ    STCK3           26.75    20.07    12.77     5.09    -2.75   -10.74

   YBADJ    STCK4           12.36     2.44    -7.55   -17.31   -26.54   -34.97
   YBADJ    STCK4          -42.33   -48.41   -43.61   -46.40   -47.66   -47.47
   YBADJ    STCK4          -45.83   -42.81   -38.48   -32.99   -26.49   -18.95
   YBADJ    STCK4          -12.36    -2.44     7.55    17.31    26.54    34.97
   YBADJ    STCK4           42.33    48.41    43.61    46.40    47.66    47.47
   YBADJ    STCK4           45.83    42.81    38.48    32.99    26.49    18.95

   YBADJ    STCK5           41.94    30.46    18.06     5.11    -8.00   -20.87
   YBADJ    STCK5          -33.10   -44.32   -44.79   -52.81   -59.11   -63.61
   YBADJ    STCK5          -66.18   -66.74   -65.27   -61.82   -56.49   -49.20
   YBADJ    STCK5          -41.94   -30.46   -18.06    -5.11     8.00    20.87
   YBADJ    STCK5           33.10    44.32    44.79    52.81    59.11    63.61
   YBADJ    STCK5           66.18    66.74    65.27    61.82    56.49    49.20

   YBADJ    STCK6           73.53    60.83    46.29    30.35    13.48    -3.80
   YBADJ    STCK6          -20.97   -37.49   -43.47   -57.04   -68.76   -78.39
   YBADJ    STCK6          -85.64   -90.28   -92.19   -91.29   -87.61   -81.04
   YBADJ    STCK6          -73.53   -60.83   -46.29   -30.35   -13.48     3.80
   YBADJ    STCK6           20.97    37.49    43.47    57.04    68.76    78.39
   YBADJ    STCK6           85.64    90.28    92.19    91.29    87.61    81.04

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "190th Street Warehouse 2022.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC"
```

```
   PROFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL"
   SURFDATA 3167 2012
   UAIRDATA 3190 2012
   PROFBASE 19.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "190th Street Warehouse 2022.AD\PE00GALL.PLT" 31
   SUMMFILE "190th Street Warehouse 2022.sum"
OU FINISHED


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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            8 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 SO W320     480        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     481        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     482        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     483        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     484        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     485        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 ME W186    1075       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    1075       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


 *** AERMOD - VERSION 21112  ***   *** 190th St Warehouse OY                                  ***        08/29/22
 *** AERMET - VERSION  16216 ***   *** DPM concentrations 2024                                ***        07:20:47
                                                                                                        PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   349 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    349 Source(s);       1 Source Group(s); and     449 Receptor(s)

              with:      6 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:    343 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)


**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) =    19.00 ;  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 =      4.2 MB of RAM.

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

**Detailed Error/Message File:   190th Street Warehouse 2022.err
**File for Summary of Results:   190th Street Warehouse 2022.sum

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse OY                                                    ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2024                                                  ***        07:20:47
                                                                                                                         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   0.76300E-05  377355.8 3747400.0    19.1     3.50   366.00    51.90     0.09    YES     YES   NO
STCK2           0   0.76300E-05  377401.5 3747400.7    19.4     3.50   366.00    51.90     0.09    YES     YES   NO
STCK3           0   0.76300E-05  377441.8 3747400.6    19.7     3.50   366.00    51.90     0.09    YES     YES   NO
STCK4           0   0.76300E-05  377471.5 3747400.6    19.9     3.50   366.00    51.90     0.09    YES     YES   NO
STCK5           0   0.76300E-05  377501.8 3747401.7    20.2     3.50   366.00    51.90     0.09    YES     YES   NO
STCK6           0   0.76300E-05  377533.6 3747400.4    20.9     3.50   366.00    51.90     0.09    YES     YES   NO

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse OY                                                    ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2024                                                  ***        07:20:47
                                                                                                                         PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
```

- - - -

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
L0001050	0	0.58200E-07	377294.3	3747656.4	20.1	3.50	4.00	1.63	YES	
L0001051	0	0.58200E-07	377294.3	3747647.8	20.0	3.50	4.00	1.63	YES	
L0001052	0	0.58200E-07	377294.4	3747639.2	19.9	3.50	4.00	1.63	YES	
L0001053	0	0.58200E-07	377294.4	3747630.6	19.8	3.50	4.00	1.63	YES	
L0001054	0	0.58200E-07	377294.5	3747622.0	19.8	3.50	4.00	1.63	YES	
L0001055	0	0.58200E-07	377294.5	3747613.4	19.7	3.50	4.00	1.63	YES	
L0001056	0	0.58200E-07	377294.6	3747604.8	19.6	3.50	4.00	1.63	YES	
L0001057	0	0.58200E-07	377294.6	3747596.2	19.5	3.50	4.00	1.63	YES	
L0001058	0	0.58200E-07	377294.7	3747587.6	19.4	3.50	4.00	1.63	YES	
L0001059	0	0.58200E-07	377294.8	3747579.1	19.4	3.50	4.00	1.63	YES	
L0001060	0	0.58200E-07	377294.8	3747570.5	19.3	3.50	4.00	1.63	YES	
L0001061	0	0.58200E-07	377294.9	3747561.9	19.2	3.50	4.00	1.63	YES	
L0001062	0	0.58200E-07	377294.7	3747553.3	19.2	3.50	4.00	1.63	YES	
L0001063	0	0.58200E-07	377294.1	3747544.7	19.1	3.50	4.00	1.63	YES	
L0001064	0	0.58200E-07	377293.6	3747536.1	19.1	3.50	4.00	1.63	YES	
L0001065	0	0.58200E-07	377293.1	3747527.6	19.1	3.50	4.00	1.63	YES	
L0001066	0	0.58200E-07	377292.5	3747519.0	19.1	3.50	4.00	1.63	YES	
L0001067	0	0.58200E-07	377291.9	3747510.4	19.1	3.50	4.00	1.63	YES	
L0001068	0	0.58200E-07	377289.5	3747502.2	19.0	3.50	4.00	1.63	YES	
L0001069	0	0.58200E-07	377287.2	3747493.9	18.9	3.50	4.00	1.63	YES	
L0001070	0	0.58200E-07	377284.8	3747485.7	18.8	3.50	4.00	1.63	YES	
L0001071	0	0.58200E-07	377282.5	3747477.4	18.7	3.50	4.00	1.63	YES	
L0001072	0	0.58200E-07	377280.1	3747469.1	18.7	3.50	4.00	1.63	YES	
L0001073	0	0.58200E-07	377276.6	3747461.3	18.7	3.50	4.00	1.63	YES	
L0001074	0	0.58200E-07	377273.1	3747453.5	18.7	3.50	4.00	1.63	YES	
L0001075	0	0.58200E-07	377269.6	3747445.6	18.7	3.50	4.00	1.63	YES	
L0001076	0	0.58200E-07	377265.4	3747438.1	18.7	3.50	4.00	1.63	YES	
L0001077	0	0.58200E-07	377270.4	3747432.4	18.7	3.50	4.00	1.63	YES	
L0001078	0	0.58200E-07	377277.1	3747427.2	18.8	3.50	4.00	1.63	YES	
L0001079	0	0.58200E-07	377283.9	3747421.9	18.8	3.50	4.00	1.63	YES	
L0001643	0	0.45620E-07	377291.7	3747243.2	17.8	3.50	4.00	1.63	YES	
L0001644	0	0.45620E-07	377283.1	3747243.2	17.8	3.50	4.00	1.63	YES	
L0001645	0	0.45620E-07	377274.5	3747243.2	17.8	3.50	4.00	1.63	YES	
L0001646	0	0.45620E-07	377265.9	3747243.3	17.8	3.50	4.00	1.63	YES	
L0001647	0	0.45620E-07	377257.3	3747243.3	17.7	3.50	4.00	1.63	YES	
L0001648	0	0.45620E-07	377248.7	3747243.3	17.7	3.50	4.00	1.63	YES	
L0001649	0	0.45620E-07	377240.1	3747243.3	17.7	3.50	4.00	1.63	YES	
L0001650	0	0.45620E-07	377231.6	3747243.3	17.8	3.50	4.00	1.63	YES	
L0001651	0	0.45620E-07	377223.0	3747243.3	17.9	3.50	4.00	1.63	YES	
L0001652	0	0.45620E-07	377214.4	3747243.3	18.0	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
L0001653	0	0.45620E-07	377205.8	3747243.3	18.0	3.50	4.00	1.63	YES	
L0001654	0	0.45620E-07	377197.2	3747243.3	18.0	3.50	4.00	1.63	YES	
L0001655	0	0.45620E-07	377188.6	3747243.3	17.9	3.50	4.00	1.63	YES	
L0001656	0	0.45620E-07	377180.0	3747243.3	18.0	3.50	4.00	1.63	YES	
L0001657	0	0.45620E-07	377171.4	3747243.3	18.0	3.50	4.00	1.63	YES	
L0001658	0	0.45620E-07	377162.8	3747243.3	18.1	3.50	4.00	1.63	YES	
L0001659	0	0.45620E-07	377154.2	3747243.3	18.2	3.50	4.00	1.63	YES	
L0001660	0	0.45620E-07	377145.6	3747243.3	18.3	3.50	4.00	1.63	YES	
L0001661	0	0.45620E-07	377137.1	3747243.4	18.4	3.50	4.00	1.63	YES	
L0001662	0	0.45620E-07	377128.5	3747243.4	18.4	3.50	4.00	1.63	YES	
L0001663	0	0.45620E-07	377119.9	3747243.4	18.4	3.50	4.00	1.63	YES	
L0001664	0	0.45620E-07	377111.3	3747243.4	18.4	3.50	4.00	1.63	YES	
L0001665	0	0.45620E-07	377102.7	3747243.4	18.4	3.50	4.00	1.63	YES	
L0001666	0	0.45620E-07	377094.1	3747243.4	18.5	3.50	4.00	1.63	YES	
L0001667	0	0.45620E-07	377085.5	3747243.4	18.5	3.50	4.00	1.63	YES	
L0001668	0	0.45620E-07	377076.9	3747243.4	18.5	3.50	4.00	1.63	YES	
L0001669	0	0.45620E-07	377068.3	3747243.4	18.6	3.50	4.00	1.63	YES	
L0001670	0	0.45620E-07	377059.7	3747243.4	18.6	3.50	4.00	1.63	YES	
L0001671	0	0.45620E-07	377051.1	3747243.4	18.7	3.50	4.00	1.63	YES	
L0001672	0	0.45620E-07	377042.6	3747243.4	18.7	3.50	4.00	1.63	YES	
L0001673	0	0.45620E-07	377034.0	3747243.4	18.7	3.50	4.00	1.63	YES	
L0001674	0	0.45620E-07	377025.4	3747243.4	18.8	3.50	4.00	1.63	YES	
L0001675	0	0.45620E-07	377016.8	3747243.4	18.9	3.50	4.00	1.63	YES	
L0001676	0	0.45620E-07	377008.2	3747243.5	18.9	3.50	4.00	1.63	YES	
L0001677	0	0.45620E-07	376999.6	3747243.5	18.9	3.50	4.00	1.63	YES	
L0001678	0	0.45620E-07	376991.0	3747243.5	18.8	3.50	4.00	1.63	YES	
L0001679	0	0.45620E-07	376982.4	3747243.5	18.8	3.50	4.00	1.63	YES	
L0001680	0	0.45620E-07	376973.8	3747243.5	18.9	3.50	4.00	1.63	YES	
L0001681	0	0.45620E-07	376965.2	3747243.5	19.0	3.50	4.00	1.63	YES	
L0001682	0	0.45620E-07	376956.6	3747243.5	19.1	3.50	4.00	1.63	YES	
L0001683	0	0.45620E-07	376948.1	3747243.5	19.1	3.50	4.00	1.63	YES	
L0001684	0	0.45620E-07	376939.5	3747243.5	19.1	3.50	4.00	1.63	YES	
L0001685	0	0.45620E-07	376930.9	3747243.5	19.1	3.50	4.00	1.63	YES	
L0001686	0	0.45620E-07	376922.3	3747243.5	19.1	3.50	4.00	1.63	YES	
L0001687	0	0.45620E-07	376913.7	3747243.5	19.1	3.50	4.00	1.63	YES	
L0001688	0	0.45620E-07	376905.1	3747243.5	19.2	3.50	4.00	1.63	YES	
L0001689	0	0.45620E-07	376896.5	3747243.5	19.2	3.50	4.00	1.63	YES	
L0001690	0	0.45620E-07	376887.9	3747243.5	19.3	3.50	4.00	1.63	YES	
L0001691	0	0.45620E-07	376879.3	3747243.6	19.4	3.50	4.00	1.63	YES	
L0001692	0	0.45620E-07	376870.7	3747243.6	19.4	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
L0001693	0	0.45620E-07	376862.1	3747243.6	19.4	3.50	4.00	1.63	YES	
L0001694	0	0.45620E-07	376853.6	3747243.6	19.4	3.50	4.00	1.63	YES	
L0001695	0	0.45620E-07	376845.0	3747243.6	19.4	3.50	4.00	1.63	YES	
L0001696	0	0.45620E-07	376836.4	3747243.6	19.4	3.50	4.00	1.63	YES	
L0001697	0	0.45620E-07	376827.8	3747243.6	19.4	3.50	4.00	1.63	YES	
L0001698	0	0.45620E-07	376819.2	3747243.6	19.4	3.50	4.00	1.63	YES	
L0001699	0	0.45620E-07	376810.6	3747243.6	19.5	3.50	4.00	1.63	YES	
L0001700	0	0.45620E-07	376802.0	3747243.6	19.5	3.50	4.00	1.63	YES	
L0001701	0	0.45620E-07	376793.4	3747243.6	19.5	3.50	4.00	1.63	YES	
L0001702	0	0.45620E-07	376784.8	3747243.6	19.5	3.50	4.00	1.63	YES	
L0001703	0	0.45620E-07	376776.2	3747243.6	19.5	3.50	4.00	1.63	YES	
L0001704	0	0.45620E-07	376767.7	3747243.6	19.6	3.50	4.00	1.63	YES	
L0001705	0	0.45620E-07	376759.1	3747243.6	19.6	3.50	4.00	1.63	YES	
L0001706	0	0.45620E-07	376750.5	3747243.7	19.7	3.50	4.00	1.63	YES	
L0001707	0	0.45620E-07	376741.9	3747243.7	19.7	3.50	4.00	1.63	YES	
L0001708	0	0.45620E-07	376733.3	3747243.7	19.7	3.50	4.00	1.63	YES	
L0001709	0	0.45620E-07	376724.7	3747243.7	19.7	3.50	4.00	1.63	YES	
L0001710	0	0.45620E-07	376716.1	3747243.7	19.8	3.50	4.00	1.63	YES	
L0001711	0	0.45620E-07	376707.5	3747243.7	19.9	3.50	4.00	1.63	YES	
L0001712	0	0.45620E-07	376698.9	3747243.7	19.9	3.50	4.00	1.63	YES	
L0001713	0	0.45620E-07	376690.3	3747243.7	20.0	3.50	4.00	1.63	YES	
L0001714	0	0.45620E-07	376681.7	3747243.7	20.0	3.50	4.00	1.63	YES	
L0001715	0	0.45620E-07	376673.2	3747243.7	20.1	3.50	4.00	1.63	YES	
L0001888	0	0.84880E-07	377300.6	3747243.3	17.9	3.50	4.00	1.63	YES	
L0001889	0	0.84880E-07	377309.2	3747243.3	18.0	3.50	4.00	1.63	YES	
L0001890	0	0.84880E-07	377317.7	3747243.3	18.1	3.50	4.00	1.63	YES	
L0001891	0	0.84880E-07	377326.3	3747243.3	18.2	3.50	4.00	1.63	YES	
L0001892	0	0.84880E-07	377334.9	3747243.3	18.3	3.50	4.00	1.63	YES	
L0001893	0	0.84880E-07	377343.5	3747243.3	18.4	3.50	4.00	1.63	YES	
L0001894	0	0.84880E-07	377352.1	3747243.3	18.5	3.50	4.00	1.63	YES	
L0001895	0	0.84880E-07	377360.7	3747243.4	18.6	3.50	4.00	1.63	YES	
L0001896	0	0.84880E-07	377369.3	3747243.4	18.7	3.50	4.00	1.63	YES	
L0001897	0	0.84880E-07	377377.9	3747243.4	18.8	3.50	4.00	1.63	YES	
L0001898	0	0.84880E-07	377386.5	3747243.4	18.8	3.50	4.00	1.63	YES	
L0001899	0	0.84880E-07	377395.1	3747243.4	18.9	3.50	4.00	1.63	YES	
L0001900	0	0.84880E-07	377403.7	3747243.4	19.0	3.50	4.00	1.63	YES	
L0001901	0	0.84880E-07	377412.2	3747243.4	19.2	3.50	4.00	1.63	YES	
L0001902	0	0.84880E-07	377420.8	3747243.4	19.3	3.50	4.00	1.63	YES	
L0001903	0	0.84880E-07	377429.4	3747243.4	19.4	3.50	4.00	1.63	YES	
L0001904	0	0.84880E-07	377438.0	3747243.4	19.5	3.50	4.00	1.63	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

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L0001905	0	0.84880E-07	377446.6	3747243.4	19.6	3.50	4.00	1.63	YES	
L0001906	0	0.84880E-07	377455.2	3747243.4	19.7	3.50	4.00	1.63	YES	
L0001907	0	0.84880E-07	377463.8	3747243.4	19.7	3.50	4.00	1.63	YES	
L0001908	0	0.84880E-07	377472.4	3747243.4	19.8	3.50	4.00	1.63	YES	
L0001909	0	0.84880E-07	377481.0	3747243.4	19.8	3.50	4.00	1.63	YES	
L0001910	0	0.84880E-07	377489.6	3747243.4	19.8	3.50	4.00	1.63	YES	
L0001911	0	0.84880E-07	377498.1	3747243.4	19.8	3.50	4.00	1.63	YES	
L0001912	0	0.84880E-07	377506.7	3747243.4	19.7	3.50	4.00	1.63	YES	
L0001913	0	0.84880E-07	377515.3	3747243.4	19.7	3.50	4.00	1.63	YES	
L0001914	0	0.84880E-07	377523.9	3747243.4	19.6	3.50	4.00	1.63	YES	
L0001915	0	0.84880E-07	377532.5	3747243.4	19.6	3.50	4.00	1.63	YES	
L0001916	0	0.84880E-07	377541.1	3747243.4	19.5	3.50	4.00	1.63	YES	
L0001917	0	0.84880E-07	377549.7	3747243.5	19.5	3.50	4.00	1.63	YES	
L0001918	0	0.84880E-07	377558.3	3747243.5	19.5	3.50	4.00	1.63	YES	
L0001919	0	0.84880E-07	377566.9	3747243.5	19.5	3.50	4.00	1.63	YES	
L0001920	0	0.84880E-07	377575.5	3747243.5	19.4	3.50	4.00	1.63	YES	
L0001921	0	0.84880E-07	377584.1	3747243.5	19.4	3.50	4.00	1.63	YES	
L0001922	0	0.84880E-07	377592.6	3747243.5	19.3	3.50	4.00	1.63	YES	
L0001923	0	0.84880E-07	377601.2	3747243.5	19.2	3.50	4.00	1.63	YES	
L0001924	0	0.84880E-07	377609.8	3747243.5	19.2	3.50	4.00	1.63	YES	
L0001925	0	0.84880E-07	377618.4	3747243.5	19.2	3.50	4.00	1.63	YES	
L0001926	0	0.84880E-07	377627.0	3747243.5	19.1	3.50	4.00	1.63	YES	
L0001927	0	0.84880E-07	377635.6	3747243.5	19.1	3.50	4.00	1.63	YES	
L0001928	0	0.84880E-07	377644.2	3747243.5	19.0	3.50	4.00	1.63	YES	
L0001929	0	0.84880E-07	377652.8	3747243.5	19.0	3.50	4.00	1.63	YES	
L0001930	0	0.84880E-07	377661.4	3747243.5	18.9	3.50	4.00	1.63	YES	
L0001931	0	0.84880E-07	377670.0	3747243.5	18.9	3.50	4.00	1.63	YES	
L0001932	0	0.84880E-07	377678.6	3747243.5	18.8	3.50	4.00	1.63	YES	
L0001933	0	0.84880E-07	377687.1	3747243.5	18.8	3.50	4.00	1.63	YES	
L0001934	0	0.84880E-07	377695.7	3747243.5	18.7	3.50	4.00	1.63	YES	
L0001935	0	0.84880E-07	377704.3	3747243.5	18.7	3.50	4.00	1.63	YES	
L0001936	0	0.84880E-07	377712.9	3747243.5	18.6	3.50	4.00	1.63	YES	
L0001937	0	0.84880E-07	377721.5	3747243.5	18.6	3.50	4.00	1.63	YES	
L0001938	0	0.84880E-07	377730.1	3747243.5	18.5	3.50	4.00	1.63	YES	
L0001939	0	0.84880E-07	377738.7	3747243.6	18.5	3.50	4.00	1.63	YES	
L0001940	0	0.84880E-07	377747.3	3747243.6	18.4	3.50	4.00	1.63	YES	
L0001941	0	0.84880E-07	377755.9	3747243.6	18.4	3.50	4.00	1.63	YES	

L0001942	0	0.84880E-07	377764.5	3747243.6	18.3	3.50	4.00	1.63	YES
L0001943	0	0.84880E-07	377773.1	3747243.6	18.2	3.50	4.00	1.63	YES
L0001944	0	0.84880E-07	377781.6	3747243.6	18.2	3.50	4.00	1.63	YES

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*** 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
L0001945	0	0.84880E-07	377790.2	3747243.6	18.2	3.50	4.00	1.63	YES	
L0001946	0	0.84880E-07	377798.8	3747243.6	18.2	3.50	4.00	1.63	YES	
L0001947	0	0.84880E-07	377807.4	3747243.6	18.2	3.50	4.00	1.63	YES	
L0001948	0	0.84880E-07	377816.0	3747243.6	18.2	3.50	4.00	1.63	YES	
L0001949	0	0.84880E-07	377824.6	3747243.6	18.2	3.50	4.00	1.63	YES	
L0001950	0	0.84880E-07	377833.2	3747243.6	18.3	3.50	4.00	1.63	YES	
L0001951	0	0.84880E-07	377841.8	3747243.6	18.3	3.50	4.00	1.63	YES	
L0001952	0	0.84880E-07	377850.4	3747243.6	18.3	3.50	4.00	1.63	YES	
L0001953	0	0.84880E-07	377859.0	3747243.6	18.3	3.50	4.00	1.63	YES	
L0001954	0	0.84880E-07	377867.6	3747243.6	18.3	3.50	4.00	1.63	YES	
L0001955	0	0.84880E-07	377876.1	3747243.6	18.4	3.50	4.00	1.63	YES	
L0001956	0	0.84880E-07	377884.7	3747243.6	18.4	3.50	4.00	1.63	YES	
L0001957	0	0.84880E-07	377893.3	3747243.6	18.5	3.50	4.00	1.63	YES	
L0001958	0	0.84880E-07	377901.9	3747243.6	18.6	3.50	4.00	1.63	YES	
L0001959	0	0.84880E-07	377910.5	3747243.6	18.6	3.50	4.00	1.63	YES	
L0001960	0	0.84880E-07	377919.1	3747243.6	18.7	3.50	4.00	1.63	YES	
L0001961	0	0.84880E-07	377927.7	3747243.7	18.7	3.50	4.00	1.63	YES	
L0001962	0	0.84880E-07	377936.3	3747243.7	18.8	3.50	4.00	1.63	YES	
L0001963	0	0.84880E-07	377944.9	3747243.7	18.9	3.50	4.00	1.63	YES	
L0001964	0	0.84880E-07	377953.5	3747243.7	19.1	3.50	4.00	1.63	YES	
L0001965	0	0.84880E-07	377962.1	3747243.7	19.2	3.50	4.00	1.63	YES	
L0001966	0	0.84880E-07	377970.6	3747243.7	19.1	3.50	4.00	1.63	YES	
L0001967	0	0.84880E-07	377979.2	3747243.7	19.1	3.50	4.00	1.63	YES	
L0001968	0	0.84880E-07	377987.8	3747243.7	19.1	3.50	4.00	1.63	YES	
L0001969	0	0.84880E-07	377996.4	3747243.7	19.2	3.50	4.00	1.63	YES	
L0001970	0	0.84880E-07	378005.0	3747243.7	19.2	3.50	4.00	1.63	YES	
L0001971	0	0.84880E-07	378013.6	3747243.7	19.2	3.50	4.00	1.63	YES	
L0001972	0	0.84880E-07	378022.2	3747243.7	19.3	3.50	4.00	1.63	YES	
L0001973	0	0.84880E-07	378030.8	3747243.7	19.3	3.50	4.00	1.63	YES	
L0001974	0	0.84880E-07	378039.4	3747243.7	19.4	3.50	4.00	1.63	YES	
L0001975	0	0.84880E-07	378048.0	3747243.7	19.5	3.50	4.00	1.63	YES	
L0001976	0	0.84880E-07	378056.6	3747243.7	19.6	3.50	4.00	1.63	YES	
L0001977	0	0.84880E-07	378065.1	3747243.7	19.7	3.50	4.00	1.63	YES	
L0001978	0	0.84880E-07	378073.7	3747243.7	19.7	3.50	4.00	1.63	YES	

L0001979	0	0.84880E-07	378082.3	3747243.7	19.7	3.50	4.00	1.63	YES	
L0001980	0	0.84880E-07	378090.9	3747243.7	19.8	3.50	4.00	1.63	YES	
L0001981	0	0.84880E-07	378099.5	3747243.7	19.8	3.50	4.00	1.63	YES	
L0001982	0	0.84880E-07	378108.1	3747243.7	19.9	3.50	4.00	1.63	YES	
L0001983	0	0.84880E-07	378116.7	3747243.8	19.9	3.50	4.00	1.63	YES	
L0001984	0	0.84880E-07	378125.3	3747243.8	19.9	3.50	4.00	1.63	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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L0001985	0	0.84880E-07	378133.9	3747243.8	19.9	3.50	4.00	1.63	YES	
L0001986	0	0.84880E-07	378142.5	3747243.8	19.9	3.50	4.00	1.63	YES	
L0001987	0	0.84880E-07	378151.1	3747243.8	19.9	3.50	4.00	1.63	YES	
L0001988	0	0.84880E-07	378159.6	3747243.8	19.9	3.50	4.00	1.63	YES	
L0001989	0	0.84880E-07	378168.2	3747243.8	19.8	3.50	4.00	1.63	YES	
L0001990	0	0.84880E-07	378176.8	3747243.8	19.8	3.50	4.00	1.63	YES	
L0001991	0	0.84880E-07	378185.4	3747243.8	19.7	3.50	4.00	1.63	YES	
L0001992	0	0.84880E-07	378194.0	3747243.8	19.6	3.50	4.00	1.63	YES	
L0001993	0	0.84880E-07	378202.6	3747243.8	19.7	3.50	4.00	1.63	YES	
L0001994	0	0.84880E-07	378211.2	3747243.8	19.7	3.50	4.00	1.63	YES	
L0001995	0	0.84880E-07	378219.8	3747243.8	19.7	3.50	4.00	1.63	YES	
L0001996	0	0.84880E-07	378228.4	3747243.8	19.7	3.50	4.00	1.63	YES	
L0001997	0	0.84880E-07	378237.0	3747243.8	19.7	3.50	4.00	1.63	YES	
L0001998	0	0.84880E-07	378245.5	3747243.8	19.6	3.50	4.00	1.63	YES	
L0001999	0	0.84880E-07	378254.1	3747243.8	19.5	3.50	4.00	1.63	YES	
L0002000	0	0.84880E-07	378262.7	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002001	0	0.84880E-07	378271.3	3747243.8	19.3	3.50	4.00	1.63	YES	
L0002002	0	0.84880E-07	378279.9	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002003	0	0.84880E-07	378288.5	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002004	0	0.84880E-07	378297.1	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002005	0	0.84880E-07	378305.7	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002006	0	0.84880E-07	378314.3	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002007	0	0.84880E-07	378322.9	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002008	0	0.84880E-07	378331.5	3747243.9	19.3	3.50	4.00	1.63	YES	
L0002009	0	0.84880E-07	378340.0	3747243.9	19.3	3.50	4.00	1.63	YES	
L0002010	0	0.84880E-07	378348.6	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002011	0	0.84880E-07	378357.2	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002012	0	0.84880E-07	378365.8	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002013	0	0.84880E-07	378374.4	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002014	0	0.84880E-07	378383.0	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002015	0	0.84880E-07	378391.6	3747243.9	19.2	3.50	4.00	1.63	YES	

L0002016	0	0.84880E-07	378400.2	3747243.9	19.2	3.50	4.00	1.63	YES
L0002017	0	0.84880E-07	378408.8	3747243.9	19.1	3.50	4.00	1.63	YES
L0002018	0	0.84880E-07	378417.4	3747243.9	19.0	3.50	4.00	1.63	YES
L0002019	0	0.84880E-07	378426.0	3747243.9	19.0	3.50	4.00	1.63	YES
L0002020	0	0.84880E-07	378434.5	3747243.9	19.1	3.50	4.00	1.63	YES
L0002021	0	0.84880E-07	378443.1	3747243.9	19.2	3.50	4.00	1.63	YES
L0002022	0	0.84880E-07	378451.7	3747243.9	19.2	3.50	4.00	1.63	YES
L0002023	0	0.84880E-07	378460.3	3747243.9	19.2	3.50	4.00	1.63	YES
L0002024	0	0.84880E-07	378468.9	3747243.9	19.2	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
L0002025	0	0.84880E-07	378477.5	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002026	0	0.84880E-07	378486.1	3747243.9	19.1	3.50	4.00	1.63	YES	
L0002027	0	0.84880E-07	378494.7	3747244.0	19.0	3.50	4.00	1.63	YES	
L0002028	0	0.84880E-07	378503.3	3747244.0	19.0	3.50	4.00	1.63	YES	
L0002029	0	0.84880E-07	378511.9	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002030	0	0.84880E-07	378520.5	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002031	0	0.84880E-07	378529.0	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002032	0	0.84880E-07	378537.6	3747244.0	18.8	3.50	4.00	1.63	YES	
L0002033	0	0.84880E-07	378546.2	3747244.0	18.8	3.50	4.00	1.63	YES	
L0002034	0	0.84880E-07	378554.8	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002035	0	0.84880E-07	378563.4	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002036	0	0.84880E-07	378572.0	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002037	0	0.84880E-07	378580.6	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002038	0	0.84880E-07	378589.2	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002039	0	0.84880E-07	378597.8	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002040	0	0.84880E-07	378606.4	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002041	0	0.84880E-07	378615.0	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002042	0	0.84880E-07	378623.5	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002043	0	0.84880E-07	378632.1	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002044	0	0.84880E-07	378640.7	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002045	0	0.84880E-07	378649.3	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002046	0	0.84880E-07	378657.9	3747244.0	18.5	3.50	4.00	1.63	YES	
L0002047	0	0.84880E-07	378666.5	3747244.0	18.4	3.50	4.00	1.63	YES	
L0002048	0	0.84880E-07	378675.1	3747244.0	18.4	3.50	4.00	1.63	YES	
L0002049	0	0.84880E-07	378683.7	3747244.1	18.3	3.50	4.00	1.63	YES	
L0002050	0	0.84880E-07	378692.3	3747244.1	18.4	3.50	4.00	1.63	YES	
L0002051	0	0.84880E-07	378700.9	3747244.1	18.4	3.50	4.00	1.63	YES	
L0002052	0	0.84880E-07	378709.5	3747244.1	18.4	3.50	4.00	1.63	YES	

L0002053	0	0.84880E-07	378718.0	3747244.1	18.4	3.50	4.00	1.63	YES
L0002054	0	0.84880E-07	378726.6	3747244.1	18.4	3.50	4.00	1.63	YES
L0002055	0	0.84880E-07	378735.2	3747244.1	18.3	3.50	4.00	1.63	YES
L0002056	0	0.84880E-07	378743.8	3747244.1	18.2	3.50	4.00	1.63	YES
L0002057	0	0.84880E-07	378752.4	3747244.1	18.2	3.50	4.00	1.63	YES
L0002058	0	0.84880E-07	378761.0	3747244.1	18.1	3.50	4.00	1.63	YES
L0002059	0	0.84880E-07	378769.6	3747244.1	18.1	3.50	4.00	1.63	YES
L0002080	0	0.31070E-06	377316.3	3747420.1	19.0	3.50	4.00	5.10	YES
L0002081	0	0.31070E-06	377324.7	3747421.7	19.0	3.50	4.00	5.10	YES
L0002082	0	0.31070E-06	377333.3	3747421.8	19.1	3.50	4.00	5.10	YES
L0002083	0	0.31070E-06	377341.9	3747421.8	19.1	3.50	4.00	5.10	YES
L0002084	0	0.31070E-06	377350.5	3747421.9	19.2	3.50	4.00	5.10	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
L0002085	0	0.31070E-06	377359.1	3747422.0	19.2	3.50	4.00	5.10	YES	
L0002086	0	0.31070E-06	377367.7	3747422.0	19.3	3.50	4.00	5.10	YES	
L0002087	0	0.31070E-06	377376.2	3747422.1	19.4	3.50	4.00	5.10	YES	
L0002088	0	0.31070E-06	377384.8	3747422.1	19.4	3.50	4.00	5.10	YES	
L0002089	0	0.31070E-06	377393.4	3747422.2	19.5	3.50	4.00	5.10	YES	
L0002090	0	0.31070E-06	377402.0	3747422.3	19.5	3.50	4.00	5.10	YES	
L0002091	0	0.31070E-06	377410.6	3747422.3	19.6	3.50	4.00	5.10	YES	
L0002092	0	0.31070E-06	377419.2	3747422.4	19.7	3.50	4.00	5.10	YES	
L0002093	0	0.31070E-06	377427.8	3747422.4	19.7	3.50	4.00	5.10	YES	
L0002094	0	0.31070E-06	377436.4	3747422.5	19.8	3.50	4.00	5.10	YES	
L0002095	0	0.31070E-06	377445.0	3747422.6	19.8	3.50	4.00	5.10	YES	
L0002096	0	0.31070E-06	377453.6	3747422.6	19.9	3.50	4.00	5.10	YES	
L0002097	0	0.31070E-06	377462.1	3747422.7	19.9	3.50	4.00	5.10	YES	
L0002098	0	0.31070E-06	377470.7	3747422.7	20.0	3.50	4.00	5.10	YES	
L0002099	0	0.31070E-06	377479.3	3747422.8	20.1	3.50	4.00	5.10	YES	
L0002100	0	0.31070E-06	377487.9	3747422.8	20.1	3.50	4.00	5.10	YES	
L0002101	0	0.31070E-06	377496.5	3747422.9	20.2	3.50	4.00	5.10	YES	
L0002102	0	0.31070E-06	377505.1	3747423.0	20.2	3.50	4.00	5.10	YES	
L0002103	0	0.31070E-06	377513.7	3747423.0	20.2	3.50	4.00	5.10	YES	
L0002104	0	0.31070E-06	377522.3	3747423.1	20.3	3.50	4.00	5.10	YES	
L0002105	0	0.31070E-06	377530.9	3747423.1	20.4	3.50	4.00	5.10	YES	
L0002106	0	0.31070E-06	377539.5	3747423.2	20.5	3.50	4.00	5.10	YES	
L0002107	0	0.31070E-06	377548.1	3747423.3	20.6	3.50	4.00	5.10	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002060 , L0002061 ,
	L0002062 , L0002063 , L0002064 , L0002065 , L0002066 , L0002067 , L0002068 , L0002069 ,
	L0002070 , L0002071 , L0002072 , L0002073 , L0002074 , L0002075 , L0002076 , L0002077 ,
	L0002078 , L0002079 , L0001030 , L0001031 , L0001032 , L0001033 , L0001034 , L0001035 ,
	L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 , L0001042 , L0001043 ,
	L0001044 , L0001045 , L0001046 , L0001047 , L0001048 , L0001049 , L0001050 , L0001051 ,
	L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 ,
	L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 ,
	L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 ,
	L0001076 , L0001077 , L0001078 , L0001079 , L0001643 , L0001644 , L0001645 , L0001646 ,
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	L0001663 , L0001664 , L0001665 , L0001666 , L0001667 , L0001668 , L0001669 , L0001670 ,
	L0001671 , L0001672 , L0001673 , L0001674 , L0001675 , L0001676 , L0001677 , L0001678 ,
	L0001679 , L0001680 , L0001681 , L0001682 , L0001683 , L0001684 , L0001685 , L0001686 ,
	L0001687 , L0001688 , L0001689 , L0001690 , L0001691 , L0001692 , L0001693 , L0001694 ,
	L0001695 , L0001696 , L0001697 , L0001698 , L0001699 , L0001700 , L0001701 , L0001702 ,
	L0001703 , L0001704 , L0001705 , L0001706 , L0001707 , L0001708 , L0001709 , L0001710 ,
	L0001711 , L0001712 , L0001713 , L0001714 , L0001715 , L0001888 , L0001889 , L0001890 ,
	L0001891 , L0001892 , L0001893 , L0001894 , L0001895 , L0001896 , L0001897 , L0001898 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0001899 , L0001900 , L0001901 , L0001902 , L0001903 , L0001904 , L0001905 , L0001906 ,
	L0001907 , L0001908 , L0001909 , L0001910 , L0001911 , L0001912 , L0001913 , L0001914 ,
	L0001915 , L0001916 , L0001917 , L0001918 , L0001919 , L0001920 , L0001921 , L0001922 ,
	L0001923 , L0001924 , L0001925 , L0001926 , L0001927 , L0001928 , L0001929 , L0001930 ,
	L0001931 , L0001932 , L0001933 , L0001934 , L0001935 , L0001936 , L0001937 , L0001938 ,
	L0001939 , L0001940 , L0001941 , L0001942 , L0001943 , L0001944 , L0001945 , L0001946 ,
	L0001947 , L0001948 , L0001949 , L0001950 , L0001951 , L0001952 , L0001953 , L0001954 ,
	L0001955 , L0001956 , L0001957 , L0001958 , L0001959 , L0001960 , L0001961 , L0001962 ,
	L0001963 , L0001964 , L0001965 , L0001966 , L0001967 , L0001968 , L0001969 , L0001970 ,
	L0001971 , L0001972 , L0001973 , L0001974 , L0001975 , L0001976 , L0001977 , L0001978 ,
	L0001979 , L0001980 , L0001981 , L0001982 , L0001983 , L0001984 , L0001985 , L0001986 ,
	L0001987 , L0001988 , L0001989 , L0001990 , L0001991 , L0001992 , L0001993 , L0001994 ,
	L0001995 , L0001996 , L0001997 , L0001998 , L0001999 , L0002000 , L0002001 , L0002002 ,
	L0002003 , L0002004 , L0002005 , L0002006 , L0002007 , L0002008 , L0002009 , L0002010 ,
	L0002011 , L0002012 , L0002013 , L0002014 , L0002015 , L0002016 , L0002017 , L0002018 ,
	L0002019 , L0002020 , L0002021 , L0002022 , L0002023 , L0002024 , L0002025 , L0002026 ,
	L0002027 , L0002028 , L0002029 , L0002030 , L0002031 , L0002032 , L0002033 , L0002034 ,
	L0002035 , L0002036 , L0002037 , L0002038 , L0002039 , L0002040 , L0002041 , L0002042 ,
	L0002043 , L0002044 , L0002045 , L0002046 , L0002047 , L0002048 , L0002049 , L0002050 ,
	L0002051 , L0002052 , L0002053 , L0002054 , L0002055 , L0002056 , L0002057 , L0002058 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0002059 , L0002080 , L0002081 , L0002082 , L0002083 , L0002084 , L0002085 , L0002086 ,
	L0002087 , L0002088 , L0002089 , L0002090 , L0002091 , L0002092 , L0002093 , L0002094 ,
	L0002095 , L0002096 , L0002097 , L0002098 , L0002099 , L0002100 , L0002101 , L0002102 ,
	L0002103 , L0002104 , L0002105 , L0002106 , L0002107 ,

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

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002060 , L0002061 ,
		L0002062 , L0002063 , L0002064 , L0002065 , L0002066 , L0002067 , L0002068 , L0002069 ,
		L0002070 , L0002071 , L0002072 , L0002073 , L0002074 , L0002075 , L0002076 , L0002077 ,
		L0002078 , L0002079 , L0001030 , L0001031 , L0001032 , L0001033 , L0001034 , L0001035 ,
		L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 , L0001042 , L0001043 ,
		L0001044 , L0001045 , L0001046 , L0001047 , L0001048 , L0001049 , L0001050 , L0001051 ,
		L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 ,
		L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 ,
		L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 ,

L0001076 , L0001077 , L0001078 , L0001079 , L0001643 , L0001644 , L0001645 , L0001646 ,

L0001647 , L0001648 , L0001649 , L0001650 , L0001651 , L0001652 , L0001653 , L0001654 ,

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L0001663 , L0001664 , L0001665 , L0001666 , L0001667 , L0001668 , L0001669 , L0001670 ,

L0001671 , L0001672 , L0001673 , L0001674 , L0001675 , L0001676 , L0001677 , L0001678 ,

L0001679 , L0001680 , L0001681 , L0001682 , L0001683 , L0001684 , L0001685 , L0001686 ,

L0001687 , L0001688 , L0001689 , L0001690 , L0001691 , L0001692 , L0001693 , L0001694 ,

L0001695 , L0001696 , L0001697 , L0001698 , L0001699 , L0001700 , L0001701 , L0001702 ,

L0001703 , L0001704 , L0001705 , L0001706 , L0001707 , L0001708 , L0001709 , L0001710 ,

L0001711 , L0001712 , L0001713 , L0001714 , L0001715 , L0001888 , L0001889 , L0001890 ,

L0001891 , L0001892 , L0001893 , L0001894 , L0001895 , L0001896 , L0001897 , L0001898 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0001899 , L0001900 , L0001901 , L0001902 , L0001903 , L0001904 , L0001905 , L0001906 ,

L0001907 , L0001908 , L0001909 , L0001910 , L0001911 , L0001912 , L0001913 , L0001914 ,

L0001915 , L0001916 , L0001917 , L0001918 , L0001919 , L0001920 , L0001921 , L0001922 ,

L0001923 , L0001924 , L0001925 , L0001926 , L0001927 , L0001928 , L0001929 , L0001930 ,

L0001931 , L0001932 , L0001933 , L0001934 , L0001935 , L0001936 , L0001937 , L0001938 ,

L0001939 , L0001940 , L0001941 , L0001942 , L0001943 , L0001944 , L0001945 , L0001946 ,

L0001947 , L0001948 , L0001949 , L0001950 , L0001951 , L0001952 , L0001953 , L0001954 ,

L0001955 , L0001956 , L0001957 , L0001958 , L0001959 , L0001960 , L0001961 , L0001962 ,

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           L0001963    , L0001964    , L0001965    , L0001966    , L0001967    , L0001968    , L0001969    , L0001970    ,
           L0001971    , L0001972    , L0001973    , L0001974    , L0001975    , L0001976    , L0001977    , L0001978    ,
           L0001979    , L0001980    , L0001981    , L0001982    , L0001983    , L0001984    , L0001985    , L0001986    ,
           L0001987    , L0001988    , L0001989    , L0001990    , L0001991    , L0001992    , L0001993    , L0001994    ,
           L0001995    , L0001996    , L0001997    , L0001998    , L0001999    , L0002000    , L0002001    , L0002002    ,
           L0002003    , L0002004    , L0002005    , L0002006    , L0002007    , L0002008    , L0002009    , L0002010    ,
           L0002011    , L0002012    , L0002013    , L0002014    , L0002015    , L0002016    , L0002017    , L0002018    ,
           L0002019    , L0002020    , L0002021    , L0002022    , L0002023    , L0002024    , L0002025    , L0002026    ,
           L0002027    , L0002028    , L0002029    , L0002030    , L0002031    , L0002032    , L0002033    , L0002034    ,
           L0002035    , L0002036    , L0002037    , L0002038    , L0002039    , L0002040    , L0002041    , L0002042    ,
           L0002043    , L0002044    , L0002045    , L0002046    , L0002047    , L0002048    , L0002049    , L0002050    ,
           L0002051    , L0002052    , L0002053    , L0002054    , L0002055    , L0002056    , L0002057    , L0002058    ,

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse OY                                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2024                                                ***        07:20:47
                                                                                                                       PAGE  17
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

 URBAN ID   URBAN POP                                SOURCE IDs
 --------   ---------                                ----------

           L0002059    , L0002080    , L0002081    , L0002082    , L0002083    , L0002084    , L0002085    , L0002086    ,
           L0002087    , L0002088    , L0002089    , L0002090    , L0002091    , L0002092    , L0002093    , L0002094    ,
           L0002095    , L0002096    , L0002097    , L0002098    , L0002099    , L0002100    , L0002101    , L0002102    ,
           L0002103    , L0002104    , L0002105    , L0002106    , L0002107    ,

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse OY                                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2024                                                ***        07:20:47
                                                                                                                       PAGE  18
*** 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	11.0,	257.2,	159.0,	-105.2,	-101.5,	2	11.0,	262.6,	195.6,	-105.3,	-106.1,
3	11.0,	259.9,	226.2,	-102.2,	-107.4,	4	11.0,	249.4,	249.9,	-96.0,	-105.5,
5	11.0,	231.3,	266.0,	-86.8,	-100.5,	6	11.0,	206.2,	274.0,	-75.0,	-92.3,
7	11.0,	174.8,	273.8,	-60.9,	-81.3,	8	11.0,	138.1,	265.2,	-45.0,	-67.9,
9	11.0,	117.9,	249.9,	-28.2,	-43.0,	10	11.0,	159.0,	257.2,	-27.1,	-25.7,
11	11.0,	195.6,	262.6,	-25.2,	-7.5,	12	11.0,	226.2,	259.9,	-22.5,	10.9,
13	11.0,	249.9,	249.4,	-19.2,	29.0,	14	11.0,	266.0,	231.3,	-15.2,	46.2,
15	11.0,	274.0,	206.2,	-10.8,	62.0,	16	11.0,	273.8,	174.8,	-6.0,	75.9,
17	11.0,	265.2,	138.1,	-1.1,	87.5,	18	11.0,	249.9,	117.9,	-15.9,	96.7,
19	11.0,	257.2,	159.0,	-53.8,	101.5,	20	11.0,	262.6,	195.6,	-90.2,	106.1,
21	11.0,	259.9,	226.2,	-124.0,	107.4,	22	11.0,	249.4,	249.9,	-153.9,	105.5,
23	11.0,	231.3,	266.0,	-179.2,	100.5,	24	11.0,	206.2,	274.0,	-199.0,	92.3,
25	11.0,	174.8,	273.8,	-212.8,	81.3,	26	11.0,	138.1,	265.2,	-220.1,	67.9,
27	11.0,	117.9,	249.9,	-221.7,	43.0,	28	11.0,	159.0,	257.2,	-230.1,	25.7,
29	11.0,	195.6,	262.6,	-237.4,	7.5,	30	11.0,	226.2,	259.9,	-237.4,	-10.9,
31	11.0,	249.9,	249.4,	-230.2,	-29.0,	32	11.0,	266.0,	231.3,	-216.1,	-46.2,
33	11.0,	274.0,	206.2,	-195.4,	-62.0,	34	11.0,	273.8,	174.8,	-168.7,	-75.9,
35	11.0,	265.2,	138.1,	-137.0,	-87.5,	36	11.0,	249.9,	117.9,	-102.0,	-96.7,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-113.9,	-56.6,	2	11.0,	262.6,	195.6,	-121.6,	-63.4,
3	11.0,	259.9,	226.2,	-125.7,	-68.2,	4	11.0,	249.4,	249.9,	-125.9,	-71.0,
5	11.0,	231.3,	266.0,	-122.3,	-71.6,	6	11.0,	206.2,	274.0,	-115.0,	-70.1,
7	11.0,	174.8,	273.8,	-104.1,	-66.4,	8	11.0,	138.1,	265.2,	-90.2,	-60.7,
9	11.0,	117.9,	249.9,	-73.9,	-43.8,	10	11.0,	159.0,	257.2,	-72.0,	-34.4,
11	11.0,	195.6,	262.6,	-67.9,	-23.9,	12	11.0,	226.2,	259.9,	-61.7,	-12.6,
13	11.0,	249.9,	249.4,	-53.7,	-1.0,	14	11.0,	266.0,	231.3,	-44.0,	10.7,
15	11.0,	274.0,	206.2,	-33.0,	22.1,	16	11.0,	273.8,	174.8,	-21.0,	32.7,
17	11.0,	265.2,	138.1,	-8.3,	42.4,	18	11.0,	249.9,	117.9,	-15.2,	51.0,
19	11.0,	257.2,	159.0,	-45.1,	56.6,	20	11.0,	262.6,	195.6,	-73.9,	63.4,
21	11.0,	259.9,	226.2,	-100.5,	68.2,	22	11.0,	249.4,	249.9,	-124.0,	71.0,
23	11.0,	231.3,	266.0,	-143.7,	71.6,	24	11.0,	206.2,	274.0,	-159.1,	70.1,
25	11.0,	174.8,	273.8,	-169.6,	66.4,	26	11.0,	138.1,	265.2,	-175.0,	60.7,
27	11.0,	117.9,	249.9,	-176.0,	43.8,	28	11.0,	159.0,	257.2,	-185.2,	34.4,
29	11.0,	195.6,	262.6,	-194.7,	23.9,	30	11.0,	226.2,	259.9,	-198.2,	12.6,
31	11.0,	249.9,	249.4,	-195.7,	1.0,	32	11.0,	266.0,	231.3,	-187.3,	-10.7,
33	11.0,	274.0,	206.2,	-173.2,	-22.1,	34	11.0,	273.8,	174.8,	-153.8,	-32.7,
35	11.0,	265.2,	138.1,	-129.8,	-42.4,	36	11.0,	249.9,	117.9,	-102.7,	-51.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-120.8,	-16.9,	2	11.0,	262.6,	195.6,	-135.3,	-25.5,
3	11.0,	259.9,	226.2,	-145.7,	-33.3,	4	11.0,	249.4,	249.9,	-151.7,	-40.0,
5	11.0,	231.3,	266.0,	-153.1,	-45.6,	6	11.0,	206.2,	274.0,	-149.8,	-49.8,
7	11.0,	174.8,	273.8,	-142.0,	-52.5,	8	11.0,	138.1,	265.2,	-129.8,	-53.6,

9	11.0,	117.9,	249.9,	-114.2,	-43.6,	10	11.0,	159.0,	257.2,	-111.7,	-41.2,
11	11.0,	195.6,	262.6,	-105.8,	-37.5,	12	11.0,	226.2,	259.9,	-96.7,	-32.6,
13	11.0,	249.9,	249.4,	-84.6,	-26.8,	14	11.0,	266.0,	231.3,	-70.0,	-20.1,
15	11.0,	274.0,	206.2,	-53.3,	-12.8,	16	11.0,	273.8,	174.8,	-34.9,	-5.1,
17	11.0,	265.2,	138.1,	-15.5,	2.8,	18	11.0,	249.9,	117.9,	-15.3,	10.7,
19	11.0,	257.2,	159.0,	-38.3,	16.9,	20	11.0,	262.6,	195.6,	-60.3,	25.5,
21	11.0,	259.9,	226.2,	-80.5,	33.3,	22	11.0,	249.4,	249.9,	-98.2,	40.0,
23	11.0,	231.3,	266.0,	-112.9,	45.6,	24	11.0,	206.2,	274.0,	-124.2,	49.8,
25	11.0,	174.8,	273.8,	-131.8,	52.5,	26	11.0,	138.1,	265.2,	-135.3,	53.6,
27	11.0,	117.9,	249.9,	-135.7,	43.6,	28	11.0,	159.0,	257.2,	-145.5,	41.2,
29	11.0,	195.6,	262.6,	-156.7,	37.5,	30	11.0,	226.2,	259.9,	-163.2,	32.6,
31	11.0,	249.9,	249.4,	-164.8,	26.8,	32	11.0,	266.0,	231.3,	-161.3,	20.1,
33	11.0,	274.0,	206.2,	-152.9,	12.8,	34	11.0,	273.8,	174.8,	-139.9,	5.1,
35	11.0,	265.2,	138.1,	-122.6,	-2.8,	36	11.0,	249.9,	117.9,	-102.6,	-10.7,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-125.9,	12.4,	2	11.0,	262.6,	195.6,	-145.4,	2.4,
3	11.0,	259.9,	226.2,	-160.5,	-7.5,	4	11.0,	249.4,	249.9,	-170.8,	-17.3,
5	11.0,	231.3,	266.0,	-175.8,	-26.5,	6	11.0,	206.2,	274.0,	-175.5,	-35.0,
7	11.0,	174.8,	273.8,	-169.9,	-42.3,	8	11.0,	138.1,	265.2,	-159.1,	-48.4,
9	11.0,	117.9,	249.9,	-143.9,	-43.6,	10	11.0,	159.0,	257.2,	-141.0,	-46.4,
11	11.0,	195.6,	262.6,	-133.7,	-47.7,	12	11.0,	226.2,	259.9,	-122.4,	-47.5,
13	11.0,	249.9,	249.4,	-107.4,	-45.8,	14	11.0,	266.0,	231.3,	-89.1,	-42.8,
15	11.0,	274.0,	206.2,	-68.1,	-38.5,	16	11.0,	273.8,	174.8,	-45.1,	-33.0,
17	11.0,	265.2,	138.1,	-20.6,	-26.5,	18	11.0,	249.9,	117.9,	-15.3,	-18.9,
19	11.0,	257.2,	159.0,	-33.1,	-12.4,	20	11.0,	262.6,	195.6,	-50.1,	-2.4,
21	11.0,	259.9,	226.2,	-65.6,	7.5,	22	11.0,	249.4,	249.9,	-79.1,	17.3,
23	11.0,	231.3,	266.0,	-90.2,	26.5,	24	11.0,	206.2,	274.0,	-98.5,	35.0,
25	11.0,	174.8,	273.8,	-103.9,	42.3,	26	11.0,	138.1,	265.2,	-106.1,	48.4,
27	11.0,	117.9,	249.9,	-106.0,	43.6,	28	11.0,	159.0,	257.2,	-116.2,	46.4,
29	11.0,	195.6,	262.6,	-128.8,	47.7,	30	11.0,	226.2,	259.9,	-137.5,	47.5,
31	11.0,	249.9,	249.4,	-142.0,	45.8,	32	11.0,	266.0,	231.3,	-142.2,	42.8,
33	11.0,	274.0,	206.2,	-138.1,	38.5,	34	11.0,	273.8,	174.8,	-129.7,	33.0,
35	11.0,	265.2,	138.1,	-117.5,	26.5,	36	11.0,	249.9,	117.9,	-102.6,	18.9,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-132.3,	41.9,	2	11.0,	262.6,	195.6,	-156.9,	30.5,
3	11.0,	259.9,	226.2,	-176.7,	18.1,	4	11.0,	249.4,	249.9,	-191.1,	5.1,
5	11.0,	231.3,	266.0,	-199.7,	-8.0,	6	11.0,	206.2,	274.0,	-202.3,	-20.9,

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   7   11.0,  174.8,  273.8, -198.7,  -33.1,      8   11.0,  138.1,  265.2, -189.1,  -44.3,
   9   11.0,  117.9,  249.9, -174.2,  -44.8,     10   11.0,  159.0,  257.2, -170.5,  -52.8,
  11   11.0,  195.6,  262.6, -161.7,  -59.1,     12   11.0,  226.2,  259.9, -148.0,  -63.6,
  13   11.0,  249.9,  249.4, -129.8,  -66.2,     14   11.0,  266.0,  231.3, -107.6,  -66.7,
  15   11.0,  274.0,  206.2,  -82.2,  -65.3,     16   11.0,  273.8,  174.8,  -54.3,  -61.8,
  17   11.0,  265.2,  138.1,  -24.7,  -56.5,     18   11.0,  249.9,  117.9,  -14.2,  -49.2,
  19   11.0,  257.2,  159.0,  -26.7,  -41.9,     20   11.0,  262.6,  195.6,  -38.7,  -30.5,
  21   11.0,  259.9,  226.2,  -49.5,  -18.1,     22   11.0,  249.4,  249.9,  -58.8,   -5.1,
  23   11.0,  231.3,  266.0,  -66.3,    8.0,     24   11.0,  206.2,  274.0,  -71.8,   20.9,
  25   11.0,  174.8,  273.8,  -75.1,   33.1,     26   11.0,  138.1,  265.2,  -76.1,   44.3,
  27   11.0,  117.9,  249.9,  -75.8,   44.8,     28   11.0,  159.0,  257.2,  -86.7,   52.8,
  29   11.0,  195.6,  262.6, -100.8,   59.1,     30   11.0,  226.2,  259.9, -111.9,   63.6,
  31   11.0,  249.9,  249.4, -119.6,   66.2,     32   11.0,  266.0,  231.3, -123.6,   66.7,
  33   11.0,  274.0,  206.2, -124.0,   65.3,     34   11.0,  273.8,  174.8, -120.5,   61.8,
  35   11.0,  265.2,  138.1, -113.4,   56.5,     36   11.0,  249.9,  117.9, -103.7,   49.2,


SOURCE ID: STCK6
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ    YADJ
   1   11.0,  257.2,  159.0, -136.6,   73.5,      2   11.0,  262.6,  195.6, -166.5,   60.8,
   3   11.0,  259.9,  226.2, -191.5,   46.3,      4   11.0,  249.4,  249.9, -210.6,   30.4,
   5   11.0,  231.3,  266.0, -223.3,   13.5,      6   11.0,  206.2,  274.0, -229.2,   -3.8,
   7   11.0,  174.8,  273.8, -228.2,  -21.0,      8   11.0,  138.1,  265.2, -220.2,  -37.5,
   9   11.0,  117.9,  249.9, -206.0,  -43.5,     10   11.0,  159.0,  257.2, -202.1,  -57.0,
  11   11.0,  195.6,  262.6, -192.1,  -68.8,     12   11.0,  226.2,  259.9, -176.3,  -78.4,
  13   11.0,  249.9,  249.4, -155.1,  -85.6,     14   11.0,  266.0,  231.3, -129.1,  -90.3,
  15   11.0,  274.0,  206.2,  -99.3,  -92.2,     16   11.0,  273.8,  174.8,  -66.4,  -91.3,
  17   11.0,  265.2,  138.1,  -31.6,  -87.6,     18   11.0,  249.9,  117.9,  -15.5,  -81.0,
  19   11.0,  257.2,  159.0,  -22.5,  -73.5,     20   11.0,  262.6,  195.6,  -29.0,  -60.8,
  21   11.0,  259.9,  226.2,  -34.7,  -46.3,     22   11.0,  249.4,  249.9,  -39.3,  -30.4,
  23   11.0,  231.3,  266.0,  -42.7,  -13.5,     24   11.0,  206.2,  274.0,  -44.8,    3.8,
  25   11.0,  174.8,  273.8,  -45.6,   21.0,     26   11.0,  138.1,  265.2,  -45.0,   37.5,
  27   11.0,  117.9,  249.9,  -43.9,   43.5,     28   11.0,  159.0,  257.2,  -55.1,   57.0,
  29   11.0,  195.6,  262.6,  -70.4,   68.8,     30   11.0,  226.2,  259.9,  -83.7,   78.4,
  31   11.0,  249.9,  249.4,  -94.4,   85.6,     32   11.0,  266.0,  231.3, -102.2,   90.3,
  33   11.0,  274.0,  206.2, -106.9,   92.2,     34   11.0,  273.8,  174.8, -108.4,   91.3,
  35   11.0,  265.2,  138.1, -106.5,   87.6,     36   11.0,  249.9,  117.9, -102.4,   81.0,


*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse OY                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2024                                ***        07:20:47
                                                                                                      PAGE  20
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

376999.0, 377086.3, 377173.6, 377260.9, 377348.2, 377435.5, 377522.8, 377610.1, 377697.4, 377784.7,
377872.0, 377959.3, 378046.6, 378133.9, 378221.2, 378308.5, 378395.8, 378483.1, 378570.4, 378657.7,
378745.0,

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

3746986.6, 3747043.0, 3747099.4, 3747155.8, 3747212.2, 3747268.5, 3747324.9, 3747381.3, 3747437.7, 3747494.1,
3747550.4, 3747606.8, 3747663.2, 3747719.6, 3747776.0, 3747832.3, 3747888.7, 3747945.1, 3748001.5, 3748057.9,
3748114.2,

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 376998.97	377086.27	377173.57	377260.87	377348.17	377435.47	377522.77	377610.07	377697.37
3748114.24	18.30	18.50	19.10	19.90	20.30	20.10	19.80	19.60	19.40
3748057.86	25.50	18.60	18.90	19.10	19.50	19.60	19.70	19.70	19.60
3748001.48	19.20	25.90	25.00	19.80	20.00	20.80	20.10	19.90	20.10
3747945.10	18.10	19.60	25.20	26.60	23.40	22.60	20.00	20.10	20.10
3747888.72	18.30	18.60	21.80	20.80	23.70	25.60	21.70	19.80	19.80
3747832.34	18.40	18.70	20.00	20.80	20.80	20.60	23.60	23.50	19.90
3747775.96	18.40	18.70	19.50	21.00	20.70	19.90	19.90	19.80	22.80
3747719.58	18.60	19.10	19.80	20.70	20.80	20.50	20.30	19.90	19.20
3747663.20	18.50	18.80	19.20	20.20	20.50	20.70	19.80	19.70	19.20
3747606.82	18.50	18.70	19.10	19.40	20.00	20.40	19.70	19.60	19.30
3747550.44	18.40	18.50	18.60	18.50	19.80	20.20	19.70	19.70	19.60
3747494.06	18.40	18.40	18.30	18.20	19.90	20.20	19.60	19.80	19.80
3747437.68	18.70	18.60	18.40	18.50	19.20	19.90	19.90	20.00	19.80
3747381.30	18.90	18.50	18.20	18.60	19.00	19.60	20.40	20.20	19.60
3747324.92	19.30	18.60	18.00	18.30	18.90	19.30	20.40	19.70	19.60
3747268.54	18.90	18.50	18.00	17.80	18.50	19.30	19.60	19.50	19.20
3747212.16	19.20	19.10	18.40	18.20	19.50	20.00	20.00	19.20	18.50
3747155.78	19.50	19.50	19.60	19.70	22.00	21.80	21.10	21.90	19.80
3747099.40	18.90	18.80	19.90	20.20	21.90	21.80	21.40	21.90	21.30
3747043.02	18.60	18.40	20.30	20.10	20.70	20.70	20.90	20.80	21.30
3746986.64	19.40	18.30	20.10	19.90	13.80	13.50	20.90	20.60	20.70

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	19.20	19.10	18.90	18.80	18.70	18.70	18.20	17.60	17.60
3748057.86	19.60	19.50	19.40	19.20	18.90	18.60	18.30	18.00	17.80
3748001.48	19.90	19.50	19.50	19.80	19.20	18.80	18.70	18.30	18.00
3747945.10	19.60	19.20	19.40	20.10	19.10	19.00	18.90	18.50	18.10
3747888.72	19.20	19.10	19.20	20.10	19.60	19.40	19.00	18.60	18.30
3747832.34	19.10	19.00	19.60	19.90	19.90	19.30	19.30	19.20	18.90
3747775.96	22.70	19.10	19.40	19.60	20.10	19.50	19.20	18.80	18.60
3747719.58	19.90	24.00	23.10	20.00	20.10	19.50	19.30	19.00	18.60
3747663.20	19.10	19.40	22.60	25.80	21.30	19.40	19.20	18.80	18.50
3747606.82	19.60	19.30	19.50	20.30	23.70	25.00	19.90	18.80	18.80
3747550.44	19.70	19.30	19.20	19.50	19.90	19.90	24.50	22.10	18.80
3747494.06	19.50	19.30	19.10	19.50	20.00	19.20	20.00	20.60	22.40
3747437.68	19.50	18.90	18.60	19.30	19.90	20.00	20.10	20.00	20.10
3747381.30	19.40	19.00	18.80	19.10	20.10	20.10	20.10	19.70	19.90
3747324.92	19.40	19.30	19.50	19.70	20.00	20.10	19.90	19.60	19.70
3747268.54	19.10	18.90	19.60	19.70	20.00	20.10	19.80	19.40	19.60
3747212.16	18.10	18.70	19.30	19.70	20.20	20.10	19.80	19.50	19.10
3747155.78	17.40	22.30	22.60	23.40	20.30	20.40	20.40	20.90	20.10
3747099.40	17.60	20.00	20.30	23.20	20.10	20.50	20.60	20.10	20.00
3747043.02	17.70	17.40	18.60	23.30	19.60	20.00	19.80	20.30	20.40
3746986.64	17.60	16.20	19.00	22.70	19.60	19.70	20.00	19.90	20.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	16.40	16.00	16.70
3748057.86	17.10	17.30	17.10
3748001.48	17.70	17.20	17.20
3747945.10	17.60	17.40	17.40
3747888.72	18.10	17.40	17.50
3747832.34	17.90	17.50	17.40
3747775.96	17.90	17.60	17.30
3747719.58	18.00	17.70	17.50

3747663.20	18.10	17.70	17.80
3747606.82	18.20	17.80	17.90
3747550.44	18.20	18.00	17.90
3747494.06	19.90	18.50	18.30
3747437.68	21.40	22.40	20.70
3747381.30	20.10	21.00	22.10
3747324.92	19.80	19.20	18.50
3747268.54	19.20	19.00	18.70
3747212.16	18.80	18.60	18.40
3747155.78	19.20	19.40	19.10
3747099.40	18.90	19.30	19.00
3747043.02	19.20	19.20	18.60
3746986.64	20.00	20.00	18.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 376998.97	377086.27	377173.57	377260.87	377348.17	377435.47	377522.77	377610.07	377697.37
3748114.24	25.50	18.50	19.10	19.90	20.30	20.10	19.80	19.60	19.40
3748057.86	25.50	26.00	26.20	19.10	19.50	19.60	19.70	19.70	19.60
3748001.48	25.70	25.90	26.20	26.60	20.00	20.80	20.10	19.90	20.10
3747945.10	25.50	26.20	25.20	26.60	26.50	22.60	20.00	20.10	20.10
3747888.72	18.30	24.40	21.80	26.60	26.50	25.60	24.80	19.80	19.80
3747832.34	18.40	18.70	20.00	20.80	20.80	25.50	23.60	23.50	19.90
3747775.96	18.40	18.70	19.50	21.00	20.70	19.90	19.90	23.50	22.80
3747719.58	18.60	19.10	19.80	20.70	20.80	20.50	20.30	19.90	19.20
3747663.20	18.50	18.80	19.20	20.20	20.50	20.70	19.80	19.70	19.20
3747606.82	18.50	18.70	19.10	19.40	20.00	20.40	19.70	19.60	19.30
3747550.44	18.40	18.50	18.60	18.50	19.80	20.20	19.70	19.70	19.60
3747494.06	18.40	18.40	18.30	18.20	19.90	20.20	19.60	19.80	19.80
3747437.68	18.70	18.60	18.40	18.50	19.20	19.90	19.90	20.00	19.80
3747381.30	18.90	18.50	18.20	18.60	19.00	19.60	20.40	20.20	19.60
3747324.92	19.30	18.60	18.00	18.30	18.90	19.30	20.40	19.70	19.60
3747268.54	18.90	18.50	18.00	17.80	18.50	19.30	19.60	19.50	19.20
3747212.16	19.20	19.10	18.40	18.20	19.50	20.00	20.00	19.20	18.50
3747155.78	19.50	19.50	19.60	19.70	22.00	21.80	21.10	21.90	19.80
3747099.40	18.90	18.80	19.90	20.20	21.90	21.80	21.40	21.90	21.30
3747043.02	18.60	18.40	20.30	20.10	20.70	20.70	20.90	20.80	21.30
3746986.64	19.40	18.30	20.10	19.90	20.60	21.70	20.90	20.60	20.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	19.20	19.10	18.90	18.80	18.70	18.70	18.20	17.60	17.60
3748057.86	19.60	19.50	19.40	19.20	18.90	18.60	18.30	18.00	17.80
3748001.48	19.90	19.50	19.50	19.80	19.20	18.80	18.70	18.30	18.00
3747945.10	19.60	19.20	19.40	20.10	19.10	19.00	18.90	18.50	18.10
3747888.72	19.20	19.10	19.20	20.10	19.60	19.40	19.00	18.60	18.30
3747832.34	19.10	19.00	19.60	19.90	19.90	19.30	19.30	19.20	18.90
3747775.96	23.10	24.00	19.40	19.60	20.10	19.50	19.20	18.80	18.60
3747719.58	23.40	24.00	24.90	26.00	20.10	19.50	19.30	19.00	18.60
3747663.20	19.10	24.50	25.30	25.80	24.70	25.90	19.20	18.80	18.50
3747606.82	19.60	19.30	19.50	26.20	26.20	25.00	25.10	18.80	18.80
3747550.44	19.70	19.30	19.20	19.50	25.50	25.80	24.50	22.10	22.20
3747494.06	19.50	19.30	19.10	19.50	20.00	19.20	20.00	23.90	22.40
3747437.68	19.50	18.90	18.60	19.30	19.90	20.00	20.10	20.00	20.10
3747381.30	19.40	19.00	18.80	19.10	20.10	20.10	20.10	19.70	19.90
3747324.92	19.40	19.30	19.50	19.70	20.00	20.10	19.90	19.60	19.70
3747268.54	19.10	18.90	19.60	19.70	20.00	20.10	19.80	19.40	19.60
3747212.16	18.10	24.50	19.30	22.80	20.20	20.10	19.80	19.50	19.10
3747155.78	24.30	24.50	22.60	23.40	20.30	20.40	20.40	20.90	20.10
3747099.40	24.30	24.30	20.30	23.20	20.10	20.50	20.60	20.10	20.00
3747043.02	24.30	17.40	18.60	23.30	19.60	20.00	19.80	20.30	20.40
3746986.64	22.90	21.40	19.00	22.70	19.60	19.70	20.00	19.90	20.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	16.40	16.00	16.70
3748057.86	17.10	17.30	17.10
3748001.48	17.70	17.20	17.20
3747945.10	17.60	17.40	17.40
3747888.72	18.10	17.40	17.50

3747832.34	17.90	17.50	17.40
3747775.96	17.90	17.60	17.30
3747719.58	18.00	17.70	17.50
3747663.20	18.10	17.70	17.80
3747606.82	18.20	17.80	17.90
3747550.44	18.20	18.00	17.90
3747494.06	19.90	18.50	18.30
3747437.68	21.40	22.40	23.30
3747381.30	20.10	21.00	24.00
3747324.92	19.80	19.20	18.50
3747268.54	19.20	19.00	18.70
3747212.16	18.80	18.60	18.40
3747155.78	19.20	19.40	19.10
3747099.40	18.90	19.30	19.00
3747043.02	19.20	19.20	18.60
3746986.64	20.00	20.00	18.90

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

(377146.6, 3747291.4,	18.2,	18.2,	0.0);	(377230.5, 3747442.5,	18.1,	18.1,	0.0);
(377253.4, 3747498.1,	18.2,	18.2,	0.0);	(377259.3, 3747543.7,	18.5,	18.5,	0.0);
(377259.3, 3747621.9,	19.6,	19.6,	0.0);	(377260.6, 3747704.7,	20.6,	20.6,	0.0);
(378132.2, 3747267.4,	20.0,	20.0,	0.0);	(378294.5, 3747265.7,	19.8,	19.8,	0.0);

* 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)
L0001076	377260.9	3747437.7	-4.03

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC Met Version: 16216
Profile file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3167 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	283.8	2.0
12	01	01	1	02	-2.1	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	305.	7.9	283.1	2.0
12	01	01	1	03	-9.0	0.127	-9.000	-9.000	-999.	109.	20.8	0.24	2.79	1.00	1.18	323.	7.9	282.5	2.0
12	01	01	1	04	-2.2	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	296.	7.9	282.0	2.0
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	06	-6.0	0.103	-9.000	-9.000	-999.	80.	16.7	0.24	2.79	1.00	0.97	321.	7.9	281.4	2.0
12	01	01	1	07	-4.3	0.088	-9.000	-9.000	-999.	63.	14.4	0.24	2.79	1.00	0.82	313.	7.9	280.4	2.0
12	01	01	1	08	15.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	0.55	0.00	0.	7.9	281.4	2.0
12	01	01	1	09	35.7	0.115	0.353	0.013	45.	93.	-3.8	0.24	2.79	0.32	0.63	179.	7.9	285.4	2.0
12	01	01	1	10	109.0	0.141	0.727	0.009	128.	127.	-2.3	0.24	2.79	0.24	0.70	170.	7.9	289.2	2.0
12	01	01	1	11	164.4	0.149	1.186	0.005	370.	138.	-1.8	0.24	2.79	0.21	0.70	222.	7.9	297.0	2.0
12	01	01	1	12	191.7	0.163	1.525	0.005	672.	158.	-2.1	0.24	2.79	0.20	0.79	12.	7.9	299.9	2.0

```
12 01 01   1 13  191.3  0.170  1.819  0.005 1144.  168.     -2.3  0.24   2.79   0.20    0.84  260.    7.9  300.9    2.0
12 01 01   1 14  161.6  0.344  1.852  0.005 1428.  483.    -22.7  0.24   2.79   0.21    2.49  260.    7.9  298.8    2.0
12 01 01   1 15  105.0  0.367  1.638  0.005 1521.  534.    -42.8  0.24   2.79   0.24    2.84  292.    7.9  293.8    2.0
12 01 01   1 16   29.7  0.383  1.079  0.005 1539.  570.   -172.5  0.24   2.79   0.33    3.22  276.    7.9  290.4    2.0
12 01 01   1 17  -24.8  0.287 -9.000 -9.000 -999.  374.     90.3  0.24   2.79   0.59    2.52  284.    7.9  289.2    2.0
12 01 01   1 18  -26.7  0.269 -9.000 -9.000 -999.  336.     79.8  0.24   2.79   1.00    2.38  285.    7.9  287.5    2.0
12 01 01   1 19  -10.2  0.137 -9.000 -9.000 -999.  133.     22.7  0.24   2.79   1.00    1.26  287.    7.9  287.5    2.0
12 01 01   1 20   -6.2  0.106 -9.000 -9.000 -999.   83.     17.2  0.24   2.79   1.00    0.99  303.    7.9  287.0    2.0
12 01 01   1 21   -7.6  0.117 -9.000 -9.000 -999.   96.     19.1  0.24   2.79   1.00    1.09  326.    7.9  286.4    2.0
12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00   283.8   99.0  -99.00  -99.00

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

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse OY                                                    ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2024                                                  ***        07:20:47
                                                                                                                        PAGE  31
*** 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       , STCK5       ,
               STCK6       , L0002060    , L0002061    , L0002062    , L0002063    , L0002064    , L0002065    , L0002066    ,
               L0002067    , L0002068    , L0002069    , L0002070    , L0002071    , L0002072    , L0002073    , L0002074    ,
               L0002075    , L0002076    , L0002077    , L0002078    , L0002079    , L0001030    , L0001031    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |    376998.97    377086.27    377173.57    377260.87    377348.17    377435.47    377522.77    377610.07    377697.37
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00012      0.00013      0.00014      0.00015      0.00015      0.00016      0.00016      0.00015      0.00015
 3748057.86 |       0.00011      0.00015      0.00016      0.00017      0.00018      0.00018      0.00018      0.00018      0.00017
 3748001.48 |       0.00015      0.00014      0.00016      0.00021      0.00021      0.00021      0.00021      0.00021      0.00019
 3747945.10 |       0.00017      0.00020      0.00019      0.00020      0.00023      0.00024      0.00025      0.00024      0.00023
 3747888.72 |       0.00020      0.00023      0.00026      0.00031      0.00029      0.00026      0.00029      0.00029      0.00027
 3747832.34 |       0.00022      0.00027      0.00033      0.00047      0.00045      0.00039      0.00033      0.00031      0.00033
 3747775.96 |       0.00025      0.00031      0.00039      0.00063      0.00059      0.00049      0.00045      0.00043      0.00037
 3747719.58 |       0.00028      0.00036      0.00047      0.00074      0.00071      0.00060      0.00056      0.00053      0.00049
 3747663.20 |       0.00032      0.00041      0.00055      0.00087      0.00087      0.00076      0.00072      0.00067      0.00062
 3747606.82 |       0.00035      0.00047      0.00065      0.00103      0.00110      0.00102      0.00097      0.00089      0.00082
 3747550.44 |       0.00039      0.00053      0.00076      0.00124      0.00147      0.00151      0.00141      0.00127      0.00110
 3747494.06 |       0.00043      0.00059      0.00087      0.00161      0.00227      0.00237      0.00231      0.00195      0.00145
```

3747437.68	0.00046	0.00064	0.00098	0.00220	0.00414	0.00522	0.00519	0.00363	0.00167
3747381.30	0.00049	0.00067	0.00102	0.00216	0.00258	0.00410	0.00409	0.00319	0.00172
3747324.92	0.00054	0.00072	0.00104	0.00207	0.00208	0.00279	0.00248	0.00223	0.00156
3747268.54	0.00076	0.00092	0.00120	0.00187	0.00237	0.00240	0.00236	0.00223	0.00165
3747212.16	0.00066	0.00081	0.00102	0.00137	0.00192	0.00211	0.00207	0.00161	0.00131
3747155.78	0.00047	0.00059	0.00075	0.00095	0.00117	0.00139	0.00136	0.00110	0.00090
3747099.40	0.00039	0.00049	0.00061	0.00075	0.00091	0.00105	0.00105	0.00089	0.00073
3747043.02	0.00033	0.00041	0.00050	0.00062	0.00075	0.00086	0.00085	0.00075	0.00061
3746986.64	0.00029	0.00035	0.00043	0.00052	0.00060	0.00068	0.00070	0.00062	0.00053

*** 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 , STCK5 ,
STCK6 , L0002060 , L0002061 , L0002062 , L0002063 , L0002064 , L0002065 , L0002066 ,
L0002067 , L0002068 , L0002069 , L0002070 , L0002071 , L0002072 , L0002073 , L0002074 ,
L0002075 , L0002076 , L0002077 , L0002078 , L0002079 , L0001030 , L0001031 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	0.00014	0.00013	0.00012	0.00011	0.00011	0.00010	0.00009	0.00009	0.00008
3748057.86	0.00016	0.00015	0.00014	0.00013	0.00012	0.00011	0.00010	0.00009	0.00009
3748001.48	0.00018	0.00017	0.00015	0.00014	0.00013	0.00012	0.00011	0.00010	0.00010
3747945.10	0.00021	0.00019	0.00018	0.00016	0.00015	0.00013	0.00012	0.00011	0.00010
3747888.72	0.00025	0.00023	0.00021	0.00019	0.00017	0.00015	0.00013	0.00012	0.00011
3747832.34	0.00030	0.00027	0.00024	0.00021	0.00019	0.00017	0.00015	0.00013	0.00012
3747775.96	0.00034	0.00032	0.00028	0.00025	0.00022	0.00019	0.00016	0.00015	0.00013
3747719.58	0.00044	0.00038	0.00034	0.00029	0.00024	0.00021	0.00018	0.00016	0.00014
3747663.20	0.00056	0.00048	0.00040	0.00034	0.00028	0.00023	0.00019	0.00017	0.00015
3747606.82	0.00071	0.00059	0.00047	0.00037	0.00031	0.00027	0.00021	0.00018	0.00016
3747550.44	0.00090	0.00068	0.00052	0.00041	0.00033	0.00027	0.00024	0.00021	0.00018
3747494.06	0.00103	0.00075	0.00056	0.00044	0.00035	0.00029	0.00025	0.00022	0.00020
3747437.68	0.00110	0.00080	0.00060	0.00048	0.00039	0.00032	0.00028	0.00025	0.00022
3747381.30	0.00117	0.00086	0.00066	0.00053	0.00044	0.00037	0.00033	0.00029	0.00027
3747324.92	0.00120	0.00095	0.00077	0.00063	0.00054	0.00048	0.00043	0.00040	0.00037
3747268.54	0.00145	0.00130	0.00116	0.00105	0.00097	0.00090	0.00086	0.00083	0.00080
3747212.16	0.00115	0.00104	0.00094	0.00086	0.00079	0.00073	0.00069	0.00066	0.00064
3747155.78	0.00074	0.00063	0.00055	0.00049	0.00044	0.00040	0.00036	0.00034	0.00032
3747099.40	0.00059	0.00050	0.00043	0.00037	0.00033	0.00030	0.00027	0.00024	0.00023
3747043.02	0.00050	0.00041	0.00035	0.00030	0.00027	0.00024	0.00021	0.00020	0.00018
3746986.64	0.00043	0.00035	0.00030	0.00025	0.00022	0.00020	0.00018	0.00016	0.00015

*** 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 , STCK5 ,
STCK6 , L0002060 , L0002061 , L0002062 , L0002063 , L0002064 , L0002065 , L0002066 ,
L0002067 , L0002068 , L0002069 , L0002070 , L0002071 , L0002072 , L0002073 , L0002074 ,
L0002075 , L0002076 , L0002077 , L0002078 , L0002079 , L0001030 , L0001031 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	0.00008	0.00007	0.00007
3748057.86	0.00008	0.00008	0.00007
3748001.48	0.00009	0.00008	0.00008
3747945.10	0.00010	0.00009	0.00008
3747888.72	0.00010	0.00009	0.00009
3747832.34	0.00011	0.00010	0.00009
3747775.96	0.00012	0.00011	0.00010
3747719.58	0.00013	0.00011	0.00010
3747663.20	0.00013	0.00012	0.00011
3747606.82	0.00014	0.00013	0.00012
3747550.44	0.00016	0.00014	0.00012
3747494.06	0.00017	0.00015	0.00014
3747437.68	0.00020	0.00018	0.00015
3747381.30	0.00024	0.00022	0.00019
3747324.92	0.00035	0.00031	0.00026
3747268.54	0.00078	0.00075	0.00063
3747212.16	0.00062	0.00058	0.00048
3747155.78	0.00029	0.00027	0.00022
3747099.40	0.00021	0.00019	0.00016
3747043.02	0.00016	0.00015	0.00013
3746986.64	0.00014	0.00012	0.00011

*** 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 , STCK5 ,
STCK6 , L0002060 , L0002061 , L0002062 , L0002063 , L0002064 , L0002065 , L0002066 ,
L0002067 , L0002068 , L0002069 , L0002070 , L0002071 , L0002072 , L0002073 , L0002074 ,
L0002075 , L0002076 , L0002077 , L0002078 , L0002079 , L0001030 , L0001031 , . . . ,

*** 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
377146.65	3747291.37	0.00097	377230.47	3747442.55	0.00147
377253.39	3747498.09	0.00146	377259.26	3747543.71	0.00125
377259.26	3747621.90	0.00097	377260.56	3747704.66	0.00077
378132.19	3747267.37	0.00099	378294.52	3747265.66	0.00093

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

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

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00522 AT	(377435.47, 3747437.68, 19.90, 19.90, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00519 AT	(377522.77, 3747437.68, 19.90, 19.90, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00414 AT	(377348.17, 3747437.68, 19.20, 19.20, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00410 AT	(377435.47, 3747381.30, 19.60, 19.60, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00409 AT	(377522.77, 3747381.30, 20.40, 20.40, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00363 AT	(377610.07, 3747437.68, 20.00, 20.00, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00319 AT	(377610.07, 3747381.30, 20.20, 20.20, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00279 AT	(377435.47, 3747324.92, 19.30, 19.30, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00258 AT	(377348.17, 3747381.30, 19.00, 19.00, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00248 AT	(377522.77, 3747324.92, 20.40, 20.40, 0.00)	GC	UCART1

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

*** Message Summary : AERMOD Model Execution ***

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

```
A Total of            0 Fatal Error Message(s)
A Total of            8 Warning Message(s)
A Total of         1474 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     480        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     481        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     482        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     483        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     484        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     485        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1075       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1075       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 8/29/2022
** File: C:\Lakes\AERMOD View\190th St Warehouse 2022 2YR\190th St Warehouse 2022 2YR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 190th St Warehouse 2YR
   TITLETWO DPM concentrations 2025-2026
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County_Population
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "190th St Warehouse 2022 2YR.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      377355.844  3747399.960       19.110
** DESCRSRC Idling location
   LOCATION STCK2        POINT      377401.539  3747400.698       19.440
** DESCRSRC Idling location
   LOCATION STCK3        POINT      377441.836  3747400.553       19.670
** DESCRSRC Idling location
   LOCATION STCK4        POINT      377471.534  3747400.553       19.860
** DESCRSRC Idling location
   LOCATION STCK5        POINT      377501.780  3747401.729       20.220
** DESCRSRC Idling location
   LOCATION STCK6        POINT      377533.617  3747400.407       20.860
** DESCRSRC Idling location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
```

```
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Crenshaw Place n/o 190th St to Project Driveway 4
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.33E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 3
** 377297.362, 3747254.685, 17.80, 3.50, 4.00
** 377295.861, 3747414.324, 18.62, 3.50, 4.00
** 377304.563, 3747418.225, 18.78, 3.50, 4.00
** ------------------------------------------------------------------
   LOCATION L0002136     VOLUME   377297.321 3747258.980 17.88
   LOCATION L0002137     VOLUME   377297.240 3747267.571 17.94
   LOCATION L0002138     VOLUME   377297.160 3747276.161 17.99
   LOCATION L0002139     VOLUME   377297.079 3747284.751 18.05
   LOCATION L0002140     VOLUME   377296.998 3747293.342 18.12
   LOCATION L0002141     VOLUME   377296.918 3747301.932 18.19
   LOCATION L0002142     VOLUME   377296.837 3747310.523 18.26
   LOCATION L0002143     VOLUME   377296.756 3747319.113 18.32
   LOCATION L0002144     VOLUME   377296.675 3747327.703 18.35
   LOCATION L0002145     VOLUME   377296.595 3747336.294 18.37
   LOCATION L0002146     VOLUME   377296.514 3747344.884 18.40
   LOCATION L0002147     VOLUME   377296.433 3747353.475 18.41
   LOCATION L0002148     VOLUME   377296.352 3747362.065 18.43
   LOCATION L0002149     VOLUME   377296.272 3747370.656 18.45
   LOCATION L0002150     VOLUME   377296.191 3747379.246 18.46
   LOCATION L0002151     VOLUME   377296.110 3747387.836 18.51
   LOCATION L0002152     VOLUME   377296.029 3747396.427 18.55
   LOCATION L0002153     VOLUME   377295.949 3747405.017 18.60
   LOCATION L0002154     VOLUME   377295.868 3747413.608 18.69
   LOCATION L0002155     VOLUME   377303.046 3747417.545 18.82
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Along Crenshaw Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.64E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 7
** 377293.151, 3747832.482, 20.50, 3.50, 4.00
** 377294.893, 3747556.492, 19.22, 3.50, 4.00
** 377291.989, 3747510.878, 19.17, 3.50, 4.00
** 377280.190, 3747469.395, 18.61, 3.50, 4.00
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** 377269.273, 3747444.981, 18.73, 3.50, 4.00
** 377264.724, 3747436.843, 18.71, 3.50, 4.00
** 377284.436, 3747421.471, 18.61, 3.50, 4.00
** ----------------------------------------------------------------
   LOCATION L0002156     VOLUME   377293.178 3747828.187 20.54
   LOCATION L0002157     VOLUME   377293.232 3747819.596 20.58
   LOCATION L0002158     VOLUME   377293.286 3747811.006 20.62
   LOCATION L0002159     VOLUME   377293.340 3747802.415 20.65
   LOCATION L0002160     VOLUME   377293.395 3747793.824 20.69
   LOCATION L0002161     VOLUME   377293.449 3747785.234 20.73
   LOCATION L0002162     VOLUME   377293.503 3747776.643 20.74
   LOCATION L0002163     VOLUME   377293.557 3747768.052 20.71
   LOCATION L0002164     VOLUME   377293.612 3747759.462 20.69
   LOCATION L0002165     VOLUME   377293.666 3747750.871 20.66
   LOCATION L0002166     VOLUME   377293.720 3747742.281 20.63
   LOCATION L0002167     VOLUME   377293.774 3747733.690 20.61
   LOCATION L0002168     VOLUME   377293.829 3747725.099 20.58
   LOCATION L0002169     VOLUME   377293.883 3747716.509 20.54
   LOCATION L0002170     VOLUME   377293.937 3747707.918 20.47
   LOCATION L0002171     VOLUME   377293.991 3747699.327 20.39
   LOCATION L0002172     VOLUME   377294.046 3747690.737 20.31
   LOCATION L0002173     VOLUME   377294.100 3747682.146 20.24
   LOCATION L0002174     VOLUME   377294.154 3747673.556 20.18
   LOCATION L0002175     VOLUME   377294.208 3747664.965 20.11
   LOCATION L0002176     VOLUME   377294.263 3747656.374 20.05
   LOCATION L0002177     VOLUME   377294.317 3747647.784 19.98
   LOCATION L0002178     VOLUME   377294.371 3747639.193 19.90
   LOCATION L0002179     VOLUME   377294.425 3747630.602 19.83
   LOCATION L0002180     VOLUME   377294.480 3747622.012 19.76
   LOCATION L0002181     VOLUME   377294.534 3747613.421 19.68
   LOCATION L0002182     VOLUME   377294.588 3747604.831 19.61
   LOCATION L0002183     VOLUME   377294.642 3747596.240 19.54
   LOCATION L0002184     VOLUME   377294.697 3747587.649 19.45
   LOCATION L0002185     VOLUME   377294.751 3747579.059 19.37
   LOCATION L0002186     VOLUME   377294.805 3747570.468 19.29
   LOCATION L0002187     VOLUME   377294.859 3747561.877 19.21
   LOCATION L0002188     VOLUME   377294.690 3747553.293 19.18
   LOCATION L0002189     VOLUME   377294.144 3747544.720 19.14
   LOCATION L0002190     VOLUME   377293.598 3747536.146 19.10
   LOCATION L0002191     VOLUME   377293.052 3747527.573 19.08
   LOCATION L0002192     VOLUME   377292.506 3747518.999 19.09
   LOCATION L0002193     VOLUME   377291.865 3747510.442 19.09
   LOCATION L0002194     VOLUME   377289.515 3747502.179 18.99
   LOCATION L0002195     VOLUME   377287.164 3747493.916 18.86
   LOCATION L0002196     VOLUME   377284.814 3747485.653 18.75
   LOCATION L0002197     VOLUME   377282.464 3747477.390 18.68
   LOCATION L0002198     VOLUME   377280.076 3747469.141 18.66
   LOCATION L0002199     VOLUME   377276.569 3747461.298 18.67
   LOCATION L0002200     VOLUME   377273.062 3747453.456 18.68
   LOCATION L0002201     VOLUME   377269.555 3747445.613 18.71
   LOCATION L0002202     VOLUME   377265.419 3747438.087 18.66
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   LOCATION L0002203     VOLUME   377270.374 3747432.437 18.74
   LOCATION L0002204     VOLUME   377277.149 3747427.154 18.76
   LOCATION L0002205     VOLUME   377283.923 3747421.871 18.75
** End of LINE VOLUME Source ID = SLINE2
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC 190th St w/o Crenshaw Pl
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.02E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 2
** 377295.985, 3747243.230, 17.83, 3.50, 4.00
** 376669.444, 3747243.719, 20.20, 3.50, 4.00
** ------------------------------------------------------------------
   LOCATION L0002206     VOLUME   377291.689 3747243.233 17.83
   LOCATION L0002207     VOLUME   377283.098 3747243.240 17.80
   LOCATION L0002208     VOLUME   377274.508 3747243.247 17.79
   LOCATION L0002209     VOLUME   377265.917 3747243.253 17.77
   LOCATION L0002210     VOLUME   377257.326 3747243.260 17.73
   LOCATION L0002211     VOLUME   377248.735 3747243.267 17.70
   LOCATION L0002212     VOLUME   377240.145 3747243.274 17.66
   LOCATION L0002213     VOLUME   377231.554 3747243.280 17.76
   LOCATION L0002214     VOLUME   377222.963 3747243.287 17.87
   LOCATION L0002215     VOLUME   377214.372 3747243.294 17.98
   LOCATION L0002216     VOLUME   377205.781 3747243.300 17.98
   LOCATION L0002217     VOLUME   377197.191 3747243.307 17.97
   LOCATION L0002218     VOLUME   377188.600 3747243.314 17.95
   LOCATION L0002219     VOLUME   377180.009 3747243.320 18.00
   LOCATION L0002220     VOLUME   377171.418 3747243.327 18.04
   LOCATION L0002221     VOLUME   377162.827 3747243.334 18.08
   LOCATION L0002222     VOLUME   377154.237 3747243.341 18.18
   LOCATION L0002223     VOLUME   377145.646 3747243.347 18.29
   LOCATION L0002224     VOLUME   377137.055 3747243.354 18.39
   LOCATION L0002225     VOLUME   377128.464 3747243.361 18.39
   LOCATION L0002226     VOLUME   377119.873 3747243.367 18.40
   LOCATION L0002227     VOLUME   377111.283 3747243.374 18.40
   LOCATION L0002228     VOLUME   377102.692 3747243.381 18.43
   LOCATION L0002229     VOLUME   377094.101 3747243.387 18.46
   LOCATION L0002230     VOLUME   377085.510 3747243.394 18.49
   LOCATION L0002231     VOLUME   377076.919 3747243.401 18.53
   LOCATION L0002232     VOLUME   377068.329 3747243.408 18.58
   LOCATION L0002233     VOLUME   377059.738 3747243.414 18.62
   LOCATION L0002234     VOLUME   377051.147 3747243.421 18.66
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   LOCATION L0002236     VOLUME   377033.965 3747243.434 18.74
   LOCATION L0002237     VOLUME   377025.375 3747243.441 18.80
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   LOCATION L0002239     VOLUME   377008.193 3747243.455 18.93
   LOCATION L0002240     VOLUME   376999.602 3747243.461 18.87
   LOCATION L0002241     VOLUME   376991.011 3747243.468 18.81
   LOCATION L0002242     VOLUME   376982.421 3747243.475 18.75
   LOCATION L0002243     VOLUME   376973.830 3747243.481 18.86
   LOCATION L0002244     VOLUME   376965.239 3747243.488 18.97
   LOCATION L0002245     VOLUME   376956.648 3747243.495 19.08
   LOCATION L0002246     VOLUME   376948.057 3747243.501 19.08
   LOCATION L0002247     VOLUME   376939.467 3747243.508 19.07
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   LOCATION L0002249     VOLUME   376922.285 3747243.522 19.10
   LOCATION L0002250     VOLUME   376913.694 3747243.528 19.13
   LOCATION L0002251     VOLUME   376905.103 3747243.535 19.16
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   LOCATION L0002253     VOLUME   376887.922 3747243.548 19.29
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   LOCATION L0002256     VOLUME   376862.149 3747243.568 19.36
   LOCATION L0002257     VOLUME   376853.559 3747243.575 19.37
   LOCATION L0002258     VOLUME   376844.968 3747243.582 19.38
   LOCATION L0002259     VOLUME   376836.377 3747243.589 19.40
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   LOCATION L0002262     VOLUME   376810.605 3747243.609 19.48
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   LOCATION L0002266     VOLUME   376776.241 3747243.635 19.48
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   LOCATION L0002269     VOLUME   376750.469 3747243.656 19.68
   LOCATION L0002270     VOLUME   376741.878 3747243.662 19.70
   LOCATION L0002271     VOLUME   376733.287 3747243.669 19.71
   LOCATION L0002272     VOLUME   376724.697 3747243.676 19.73
   LOCATION L0002273     VOLUME   376716.106 3747243.682 19.79
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   LOCATION L0002275     VOLUME   376698.924 3747243.696 19.92
   LOCATION L0002276     VOLUME   376690.333 3747243.702 19.98
   LOCATION L0002277     VOLUME   376681.743 3747243.709 20.04
   LOCATION L0002278     VOLUME   376673.152 3747243.716 20.11
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC 190th St East of Crenshaw Pl
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0000132
** Elevated
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** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 2
** 377296.267, 3747243.318, 17.84, 3.50, 4.00
** 378776.369, 3747244.103, 17.97, 3.50, 4.00
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   LOCATION L0002283     VOLUME   377334.925 3747243.338 18.34
   LOCATION L0002284     VOLUME   377343.516 3747243.343 18.43
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   LOCATION L0002287     VOLUME   377369.288 3747243.356 18.71
   LOCATION L0002288     VOLUME   377377.879 3747243.361 18.77
   LOCATION L0002289     VOLUME   377386.470 3747243.366 18.82
   LOCATION L0002290     VOLUME   377395.061 3747243.370 18.89
   LOCATION L0002291     VOLUME   377403.652 3747243.375 19.03
   LOCATION L0002292     VOLUME   377412.242 3747243.379 19.17
   LOCATION L0002293     VOLUME   377420.833 3747243.384 19.30
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   LOCATION L0002296     VOLUME   377446.606 3747243.397 19.57
   LOCATION L0002297     VOLUME   377455.196 3747243.402 19.66
   LOCATION L0002298     VOLUME   377463.787 3747243.407 19.74
   LOCATION L0002299     VOLUME   377472.378 3747243.411 19.80
   LOCATION L0002300     VOLUME   377480.969 3747243.416 19.79
   LOCATION L0002301     VOLUME   377489.560 3747243.420 19.78
   LOCATION L0002302     VOLUME   377498.150 3747243.425 19.76
   LOCATION L0002303     VOLUME   377506.741 3747243.429 19.71
   LOCATION L0002304     VOLUME   377515.332 3747243.434 19.66
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   LOCATION L0002306     VOLUME   377532.514 3747243.443 19.58
   LOCATION L0002307     VOLUME   377541.104 3747243.448 19.54
   LOCATION L0002308     VOLUME   377549.695 3747243.452 19.51
   LOCATION L0002309     VOLUME   377558.286 3747243.457 19.49
   LOCATION L0002310     VOLUME   377566.877 3747243.461 19.46
   LOCATION L0002311     VOLUME   377575.468 3747243.466 19.42
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   LOCATION L0002318     VOLUME   377635.603 3747243.498 19.08
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   LOCATION L0002323     VOLUME   377678.557 3747243.521 18.80
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LOCATION L0002326     VOLUME   377704.330 3747243.534 18.70
LOCATION L0002327     VOLUME   377712.920 3747243.539 18.64
LOCATION L0002328     VOLUME   377721.511 3747243.543 18.58
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LOCATION L0002333     VOLUME   377764.465 3747243.566 18.30
LOCATION L0002334     VOLUME   377773.056 3747243.571 18.23
LOCATION L0002335     VOLUME   377781.647 3747243.575 18.18
LOCATION L0002336     VOLUME   377790.238 3747243.580 18.19
LOCATION L0002337     VOLUME   377798.828 3747243.584 18.20
LOCATION L0002338     VOLUME   377807.419 3747243.589 18.22
LOCATION L0002339     VOLUME   377816.010 3747243.593 18.23
LOCATION L0002340     VOLUME   377824.601 3747243.598 18.25
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LOCATION L0002343     VOLUME   377850.373 3747243.612 18.26
LOCATION L0002344     VOLUME   377858.964 3747243.616 18.28
LOCATION L0002345     VOLUME   377867.555 3747243.621 18.34
LOCATION L0002346     VOLUME   377876.146 3747243.625 18.39
LOCATION L0002347     VOLUME   377884.736 3747243.630 18.45
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LOCATION L0002349     VOLUME   377901.918 3747243.639 18.57
LOCATION L0002350     VOLUME   377910.509 3747243.644 18.63
LOCATION L0002351     VOLUME   377919.100 3747243.648 18.68
LOCATION L0002352     VOLUME   377927.690 3747243.653 18.74
LOCATION L0002353     VOLUME   377936.281 3747243.657 18.82
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LOCATION L0002357     VOLUME   377970.644 3747243.676 19.14
LOCATION L0002358     VOLUME   377979.235 3747243.680 19.12
LOCATION L0002359     VOLUME   377987.826 3747243.685 19.13
LOCATION L0002360     VOLUME   377996.417 3747243.689 19.16
LOCATION L0002361     VOLUME   378005.007 3747243.694 19.20
LOCATION L0002362     VOLUME   378013.598 3747243.698 19.24
LOCATION L0002363     VOLUME   378022.189 3747243.703 19.29
LOCATION L0002364     VOLUME   378030.780 3747243.707 19.34
LOCATION L0002365     VOLUME   378039.371 3747243.712 19.41
LOCATION L0002366     VOLUME   378047.961 3747243.717 19.51
LOCATION L0002367     VOLUME   378056.552 3747243.721 19.62
LOCATION L0002368     VOLUME   378065.143 3747243.726 19.70
LOCATION L0002369     VOLUME   378073.734 3747243.730 19.71
LOCATION L0002370     VOLUME   378082.325 3747243.735 19.72
LOCATION L0002371     VOLUME   378090.915 3747243.739 19.75
LOCATION L0002372     VOLUME   378099.506 3747243.744 19.80
LOCATION L0002373     VOLUME   378108.097 3747243.749 19.86
LOCATION L0002374     VOLUME   378116.688 3747243.753 19.89
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LOCATION L0002376     VOLUME   378133.869 3747243.762 19.89
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LOCATION L0002379     VOLUME   378159.642 3747243.776 19.88
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LOCATION L0002381     VOLUME   378176.823 3747243.785 19.76
LOCATION L0002382     VOLUME   378185.414 3747243.790 19.68
LOCATION L0002383     VOLUME   378194.005 3747243.794 19.64
LOCATION L0002384     VOLUME   378202.596 3747243.799 19.66
LOCATION L0002385     VOLUME   378211.187 3747243.803 19.69
LOCATION L0002386     VOLUME   378219.777 3747243.808 19.70
LOCATION L0002387     VOLUME   378228.368 3747243.812 19.68
LOCATION L0002388     VOLUME   378236.959 3747243.817 19.67
LOCATION L0002389     VOLUME   378245.550 3747243.821 19.61
LOCATION L0002390     VOLUME   378254.141 3747243.826 19.50
LOCATION L0002391     VOLUME   378262.731 3747243.831 19.39
LOCATION L0002392     VOLUME   378271.322 3747243.835 19.34
LOCATION L0002393     VOLUME   378279.913 3747243.840 19.38
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LOCATION L0002396     VOLUME   378305.685 3747243.853 19.44
LOCATION L0002397     VOLUME   378314.276 3747243.858 19.43
LOCATION L0002398     VOLUME   378322.867 3747243.862 19.40
LOCATION L0002399     VOLUME   378331.458 3747243.867 19.34
LOCATION L0002400     VOLUME   378340.049 3747243.872 19.29
LOCATION L0002401     VOLUME   378348.639 3747243.876 19.25
LOCATION L0002402     VOLUME   378357.230 3747243.881 19.24
LOCATION L0002403     VOLUME   378365.821 3747243.885 19.22
LOCATION L0002404     VOLUME   378374.412 3747243.890 19.21
LOCATION L0002405     VOLUME   378383.003 3747243.894 19.21
LOCATION L0002406     VOLUME   378391.593 3747243.899 19.20
LOCATION L0002407     VOLUME   378400.184 3747243.904 19.16
LOCATION L0002408     VOLUME   378408.775 3747243.908 19.09
LOCATION L0002409     VOLUME   378417.366 3747243.913 19.01
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LOCATION L0002411     VOLUME   378434.547 3747243.922 19.10
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LOCATION L0002413     VOLUME   378451.729 3747243.931 19.21
LOCATION L0002414     VOLUME   378460.320 3747243.935 19.20
LOCATION L0002415     VOLUME   378468.911 3747243.940 19.19
LOCATION L0002416     VOLUME   378477.501 3747243.945 19.16
LOCATION L0002417     VOLUME   378486.092 3747243.949 19.09
LOCATION L0002418     VOLUME   378494.683 3747243.954 19.02
LOCATION L0002419     VOLUME   378503.274 3747243.958 18.96
LOCATION L0002420     VOLUME   378511.865 3747243.963 18.92
LOCATION L0002421     VOLUME   378520.455 3747243.967 18.89
LOCATION L0002422     VOLUME   378529.046 3747243.972 18.85
LOCATION L0002423     VOLUME   378537.637 3747243.976 18.82
LOCATION L0002424     VOLUME   378546.228 3747243.981 18.78
LOCATION L0002425     VOLUME   378554.819 3747243.986 18.74
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   LOCATION L0002426     VOLUME   378563.409 3747243.990 18.68
   LOCATION L0002427     VOLUME   378572.000 3747243.995 18.62
   LOCATION L0002428     VOLUME   378580.591 3747243.999 18.61
   LOCATION L0002429     VOLUME   378589.182 3747244.004 18.64
   LOCATION L0002430     VOLUME   378597.773 3747244.008 18.68
   LOCATION L0002431     VOLUME   378606.363 3747244.013 18.70
   LOCATION L0002432     VOLUME   378614.954 3747244.018 18.71
   LOCATION L0002433     VOLUME   378623.545 3747244.022 18.71
   LOCATION L0002434     VOLUME   378632.136 3747244.027 18.68
   LOCATION L0002435     VOLUME   378640.727 3747244.031 18.62
   LOCATION L0002436     VOLUME   378649.317 3747244.036 18.55
   LOCATION L0002437     VOLUME   378657.908 3747244.040 18.49
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   LOCATION L0002439     VOLUME   378675.090 3747244.049 18.36
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   LOCATION L0002445     VOLUME   378726.635 3747244.077 18.35
   LOCATION L0002446     VOLUME   378735.225 3747244.081 18.31
   LOCATION L0002447     VOLUME   378743.816 3747244.086 18.25
   LOCATION L0002448     VOLUME   378752.407 3747244.090 18.19
   LOCATION L0002449     VOLUME   378760.998 3747244.095 18.14
   LOCATION L0002450     VOLUME   378769.589 3747244.100 18.11
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Onsite trucks
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 7.56E-06
** Elevated
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 3
** 377312.183, 3747418.955, 18.91, 3.50, 4.00
** 377322.274, 3747421.707, 18.97, 3.50, 4.00
** 377555.500, 3747423.313, 20.57, 3.50, 4.00
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   LOCATION L0002452     VOLUME   377324.701 3747421.724 19.03
   LOCATION L0002453     VOLUME   377333.291 3747421.783 19.06
   LOCATION L0002454     VOLUME   377341.882 3747421.842 19.09
   LOCATION L0002455     VOLUME   377350.473 3747421.901 19.15
   LOCATION L0002456     VOLUME   377359.063 3747421.961 19.23
   LOCATION L0002457     VOLUME   377367.654 3747422.020 19.30
   LOCATION L0002458     VOLUME   377376.244 3747422.079 19.37
   LOCATION L0002459     VOLUME   377384.835 3747422.138 19.42
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   LOCATION L0002460     VOLUME   377393.426 3747422.197 19.48
   LOCATION L0002461     VOLUME   377402.016 3747422.256 19.54
   LOCATION L0002462     VOLUME   377410.607 3747422.315 19.59
   LOCATION L0002463     VOLUME   377419.197 3747422.375 19.65
   LOCATION L0002464     VOLUME   377427.788 3747422.434 19.71
   LOCATION L0002465     VOLUME   377436.379 3747422.493 19.77
   LOCATION L0002466     VOLUME   377444.969 3747422.552 19.84
   LOCATION L0002467     VOLUME   377453.560 3747422.611 19.89
   LOCATION L0002468     VOLUME   377462.150 3747422.670 19.94
   LOCATION L0002469     VOLUME   377470.741 3747422.729 19.99
   LOCATION L0002470     VOLUME   377479.331 3747422.788 20.05
   LOCATION L0002471     VOLUME   377487.922 3747422.848 20.12
   LOCATION L0002472     VOLUME   377496.513 3747422.907 20.18
   LOCATION L0002473     VOLUME   377505.103 3747422.966 20.22
   LOCATION L0002474     VOLUME   377513.694 3747423.025 20.24
   LOCATION L0002475     VOLUME   377522.284 3747423.084 20.26
   LOCATION L0002476     VOLUME   377530.875 3747423.143 20.35
   LOCATION L0002477     VOLUME   377539.466 3747423.202 20.47
   LOCATION L0002478     VOLUME   377548.056 3747423.261 20.59
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
   SRCPARAM STCK1          7.4E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK2          7.4E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK3          7.4E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK4          7.4E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK5          7.4E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK6          7.4E-06     3.500   366.000  51.90000     0.091
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0002136     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002137     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002138     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002139     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002140     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002141     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002142     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002143     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002144     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002145     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002146     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002147     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002148     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002149     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002150     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002151     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002152     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002153     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002154     0.0000001165      3.50      4.00      1.63
   SRCPARAM L0002155     0.0000001165      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0002156     0.0000000528      3.50      4.00      1.63
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   SRCPARAM L0002157     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002158     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002159     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002160     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002161     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002162     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002163     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002164     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002165     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002166     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002167     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002168     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002169     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002170     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002171     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002172     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002173     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002174     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002175     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002176     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002177     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002178     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002179     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002180     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002181     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002182     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002183     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002184     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002185     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002186     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002187     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002188     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002189     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002190     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002191     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002192     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002193     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002194     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002195     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002196     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002197     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002198     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002199     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002200     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002201     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002202     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002203     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002204     0.0000000528      3.50      4.00      1.63
   SRCPARAM L0002205     0.0000000528      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE3
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SRCPARAM L0002206     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002207     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002208     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002209     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002210     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002211     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002212     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002213     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002214     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002215     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002216     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002217     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002218     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002219     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002220     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002221     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002222     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002223     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002224     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002225     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002226     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002227     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002228     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002229     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002230     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002231     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002232     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002233     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002234     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002235     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002236     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002237     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002238     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002239     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002240     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002241     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002242     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002243     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002244     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002245     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002246     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002247     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002248     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002249     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002250     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002251     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002252     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002253     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002254     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002255     0.00000004137      3.50      4.00      1.63
SRCPARAM L0002256     0.00000004137      3.50      4.00      1.63
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   SRCPARAM L0002257     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002258     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002259     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002260     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002261     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002262     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002263     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002264     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002265     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002266     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002267     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002268     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002269     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002270     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002271     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002272     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002273     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002274     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002275     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002276     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002277     0.00000004137      3.50      4.00      1.63
   SRCPARAM L0002278     0.00000004137      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002279     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002280     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002281     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002282     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002283     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002284     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002285     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002286     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002287     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002288     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002289     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002290     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002291     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002292     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002293     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002294     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002295     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002296     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002297     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002298     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002299     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002300     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002301     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002302     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002303     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002304     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002305     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002306     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002307     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002308     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002309     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002310     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002311     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002312     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002313     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002314     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002315     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002316     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002317     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002318     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002319     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002320     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002321     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002322     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002323     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002324     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002325     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002326     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002327     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002328     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002329     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002330     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002331     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002332     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002333     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002334     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002335     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002336     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002337     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002338     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002339     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002340     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002341     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002342     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002344     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002345     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002346     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002347     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002348     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002349     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002350     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002351     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002352     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002353     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002354     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002355     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002356     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002357     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002359     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002360     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002361     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002362     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002363     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002364     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002365     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002366     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002367     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002368     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002369     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002370     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002371     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002372     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002373     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002375     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002376     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002379     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002381     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002383     0.00000007674      3.50      4.00      1.63
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SRCPARAM L0002406     0.00000007674      3.50      4.00      1.63
SRCPARAM L0002407     0.00000007674      3.50      4.00      1.63
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   SRCPARAM L0002415     0.00000007674      3.50      4.00      1.63
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   SRCPARAM L0002417     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002418     0.00000007674      3.50      4.00      1.63
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   SRCPARAM L0002421     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002422     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002423     0.00000007674      3.50      4.00      1.63
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   SRCPARAM L0002429     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002430     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002431     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002432     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002433     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002434     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002435     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002436     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002437     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002438     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002439     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002440     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002441     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002442     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002443     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002444     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002445     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002446     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002447     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002448     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002449     0.00000007674      3.50      4.00      1.63
   SRCPARAM L0002450     0.00000007674      3.50      4.00      1.63
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002451     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002452     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002453     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002454     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002455     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002456     0.00000027      3.50      4.00      5.10
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   SRCPARAM L0002457     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002458     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002459     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002460     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002461     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002462     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002463     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002464     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002465     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002466     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002467     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002468     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002469     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002470     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002471     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002472     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002473     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002474     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002475     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002476     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002477     0.00000027      3.50      4.00      5.10
   SRCPARAM L0002478     0.00000027      3.50      4.00      5.10
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
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BUILDHGT STCK4	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDWID STCK1	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK1	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK1	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK1	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK1	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK1	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK2	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK2	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK2	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK2	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK2	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK2	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK3	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK3	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK3	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK3	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK3	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK3	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK4	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK4	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK4	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK4	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK4	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK4	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK5	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK5	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK5	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK5	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK5	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK5	249.87	265.99	274.04	273.76	265.16	249.91

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BUILDWID STCK6          257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK6          174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK6          249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK6          257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK6          174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK6          249.87   265.99   274.04   273.76   265.16   249.91

BUILDLEN STCK1          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK1          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK1          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK1          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK1          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK1          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK2          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK2          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK2          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK2          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK2          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK2          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK3          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK3          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK3          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK3          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK3          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK3          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK4          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK4          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK4          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK4          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK4          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK4          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK5          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK5          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK5          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK5          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK5          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK5          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK6          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK6          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK6          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK6          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK6          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK6          249.40   231.30   206.18   174.78   138.08   117.90

XBADJ    STCK1         -105.24  -105.31  -102.18   -95.95   -86.80   -75.02
XBADJ    STCK1          -60.95   -45.04   -28.22   -27.12   -25.20   -22.52
```

XBADJ	STCK1	-19.15	-15.20	-10.78	-6.04	-1.12	-15.93
XBADJ	STCK1	-53.78	-90.24	-123.96	-153.91	-179.19	-199.02
XBADJ	STCK1	-212.80	-220.12	-221.69	-230.07	-237.35	-237.41
XBADJ	STCK1	-230.25	-216.11	-195.39	-168.74	-136.96	-101.97
XBADJ	STCK2	-113.90	-121.64	-125.67	-125.89	-122.29	-114.96
XBADJ	STCK2	-104.15	-90.17	-73.92	-72.00	-67.90	-61.73
XBADJ	STCK2	-53.68	-44.01	-32.99	-20.98	-8.33	-15.19
XBADJ	STCK2	-45.12	-73.92	-100.47	-123.97	-143.71	-159.07
XBADJ	STCK2	-169.61	-174.99	-175.99	-185.20	-194.66	-198.20
XBADJ	STCK2	-195.72	-187.30	-173.18	-153.80	-129.75	-102.71
XBADJ	STCK3	-120.75	-135.28	-145.69	-151.68	-153.06	-149.79
XBADJ	STCK3	-141.97	-129.83	-114.22	-111.72	-105.82	-96.70
XBADJ	STCK3	-84.65	-70.03	-53.27	-34.90	-15.47	-15.34
XBADJ	STCK3	-38.27	-60.28	-80.45	-98.18	-112.93	-124.25
XBADJ	STCK3	-131.79	-135.32	-135.69	-145.48	-156.73	-163.22
XBADJ	STCK3	-164.75	-161.28	-152.90	-139.88	-122.61	-102.56
XBADJ	STCK4	-125.91	-145.43	-160.54	-170.77	-175.81	-175.50
XBADJ	STCK4	-169.87	-159.07	-143.91	-140.95	-133.72	-122.41
XBADJ	STCK4	-107.39	-89.11	-68.12	-45.06	-20.63	-15.34
XBADJ	STCK4	-33.11	-50.12	-65.61	-79.10	-90.19	-98.53
XBADJ	STCK4	-103.89	-106.09	-106.00	-116.24	-128.83	-137.51
XBADJ	STCK4	-142.01	-142.19	-138.06	-129.73	-117.45	-102.56
XBADJ	STCK5	-132.32	-156.89	-176.69	-191.12	-199.74	-202.29
XBADJ	STCK5	-198.70	-189.07	-174.16	-170.54	-161.74	-148.02
XBADJ	STCK5	-129.81	-107.65	-82.22	-54.29	-24.72	-14.16
XBADJ	STCK5	-26.70	-38.67	-49.46	-58.75	-66.26	-71.75
XBADJ	STCK5	-75.06	-76.09	-75.75	-86.66	-100.81	-111.90
XBADJ	STCK5	-119.60	-123.65	-123.95	-120.49	-113.36	-103.74
XBADJ	STCK6	-136.55	-166.54	-191.46	-210.57	-223.28	-229.20
XBADJ	STCK6	-228.16	-220.19	-206.00	-202.13	-192.11	-176.26
XBADJ	STCK6	-155.05	-129.13	-99.28	-66.42	-31.55	-15.48
XBADJ	STCK6	-22.47	-29.02	-34.68	-39.30	-42.71	-44.83
XBADJ	STCK6	-45.59	-44.96	-43.91	-55.07	-70.44	-83.67
XBADJ	STCK6	-94.36	-102.18	-106.89	-108.36	-106.53	-102.42
YBADJ	STCK1	-101.47	-106.07	-107.44	-105.55	-100.45	-92.30
YBADJ	STCK1	-81.35	-67.92	-43.02	-25.73	-7.53	10.89
YBADJ	STCK1	28.98	46.19	62.00	75.93	87.54	96.74
YBADJ	STCK1	101.47	106.07	107.44	105.55	100.45	92.30
YBADJ	STCK1	81.35	67.92	43.02	25.73	7.53	-10.89
YBADJ	STCK1	-28.98	-46.19	-62.00	-75.93	-87.54	-96.74
YBADJ	STCK2	-56.60	-63.38	-68.24	-71.02	-71.65	-70.09
YBADJ	STCK2	-66.41	-60.71	-43.76	-34.39	-23.86	-12.60
YBADJ	STCK2	-0.96	10.71	22.05	32.73	42.41	51.04
YBADJ	STCK2	56.60	63.38	68.24	71.02	71.65	70.09

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   YBADJ    STCK2           66.41    60.71    43.76    34.39    23.86    12.60
   YBADJ    STCK2            0.96   -10.71   -22.05   -32.73   -42.41   -51.04

   YBADJ    STCK3          -16.88   -25.46   -33.26   -40.05   -45.63   -49.81
   YBADJ    STCK3          -52.49   -53.57   -43.61   -41.24   -37.50   -32.62
   YBADJ    STCK3          -26.75   -20.07   -12.77    -5.09     2.75    10.74
   YBADJ    STCK3           16.88    25.46    33.26    40.05    45.63    49.81
   YBADJ    STCK3           52.49    53.57    43.61    41.24    37.50    32.62
   YBADJ    STCK3           26.75    20.07    12.77     5.09    -2.75   -10.74

   YBADJ    STCK4           12.36     2.44    -7.55   -17.31   -26.54   -34.97
   YBADJ    STCK4          -42.33   -48.41   -43.61   -46.40   -47.66   -47.47
   YBADJ    STCK4          -45.83   -42.81   -38.48   -32.99   -26.49   -18.95
   YBADJ    STCK4          -12.36    -2.44     7.55    17.31    26.54    34.97
   YBADJ    STCK4           42.33    48.41    43.61    46.40    47.66    47.47
   YBADJ    STCK4           45.83    42.81    38.48    32.99    26.49    18.95

   YBADJ    STCK5           41.94    30.46    18.06     5.11    -8.00   -20.87
   YBADJ    STCK5          -33.10   -44.32   -44.79   -52.81   -59.11   -63.61
   YBADJ    STCK5          -66.18   -66.74   -65.27   -61.82   -56.49   -49.20
   YBADJ    STCK5          -41.94   -30.46   -18.06    -5.11     8.00    20.87
   YBADJ    STCK5           33.10    44.32    44.79    52.81    59.11    63.61
   YBADJ    STCK5           66.18    66.74    65.27    61.82    56.49    49.20

   YBADJ    STCK6           73.53    60.83    46.29    30.35    13.48    -3.80
   YBADJ    STCK6          -20.97   -37.49   -43.47   -57.04   -68.76   -78.39
   YBADJ    STCK6          -85.64   -90.28   -92.19   -91.29   -87.61   -81.04
   YBADJ    STCK6          -73.53   -60.83   -46.29   -30.35   -13.48     3.80
   YBADJ    STCK6           20.97    37.49    43.47    57.04    68.76    78.39
   YBADJ    STCK6           85.64    90.28    92.19    91.29    87.61    81.04

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "190th St Warehouse 2022 2YR.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC"
```

```
   PROFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL"
   SURFDATA 3167 2012
   UAIRDATA 3190 2012
   PROFBASE 19.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "190TH ST WAREHOUSE 2022 2YR.AD\PE00GALL.PLT" 31
   SUMMFILE "190th St Warehouse 2022 2YR.sum"
OU FINISHED


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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            8 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 SO W320     480        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     481        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     482        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     483        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     484        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     485        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 ME W186    1075       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    1075       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


 *** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2YR                                  ***        08/29/22
 *** AERMET - VERSION  16216 ***   *** DPM concentrations 2025-2026                            ***        07:53:26
                                                                                                         PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   349 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    349 Source(s);       1 Source Group(s); and     449 Receptor(s)

              with:      6 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:    343 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)


**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) =    19.00 ;  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 =      4.2 MB of RAM.

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

**Detailed Error/Message File:   190th St Warehouse 2022 2YR.err
**File for Summary of Results:   190th St Warehouse 2022 2YR.sum

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2YR                                                    ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2025-2026                                             ***        07:53:26
                                                                                                                         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   0.74000E-05  377355.8 3747400.0    19.1     3.50   366.00    51.90     0.09    YES     YES   NO
STCK2           0   0.74000E-05  377401.5 3747400.7    19.4     3.50   366.00    51.90     0.09    YES     YES   NO
STCK3           0   0.74000E-05  377441.8 3747400.6    19.7     3.50   366.00    51.90     0.09    YES     YES   NO
STCK4           0   0.74000E-05  377471.5 3747400.6    19.9     3.50   366.00    51.90     0.09    YES     YES   NO
STCK5           0   0.74000E-05  377501.8 3747401.7    20.2     3.50   366.00    51.90     0.09    YES     YES   NO
STCK6           0   0.74000E-05  377533.6 3747400.4    20.9     3.50   366.00    51.90     0.09    YES     YES   NO

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2YR                                                    ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2025-2026                                             ***        07:53:26
                                                                                                                         PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                            *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
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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
L0002176	0	0.52800E-07	377294.3	3747656.4	20.1	3.50	4.00	1.63	YES	
L0002177	0	0.52800E-07	377294.3	3747647.8	20.0	3.50	4.00	1.63	YES	
L0002178	0	0.52800E-07	377294.4	3747639.2	19.9	3.50	4.00	1.63	YES	
L0002179	0	0.52800E-07	377294.4	3747630.6	19.8	3.50	4.00	1.63	YES	
L0002180	0	0.52800E-07	377294.5	3747622.0	19.8	3.50	4.00	1.63	YES	
L0002181	0	0.52800E-07	377294.5	3747613.4	19.7	3.50	4.00	1.63	YES	
L0002182	0	0.52800E-07	377294.6	3747604.8	19.6	3.50	4.00	1.63	YES	
L0002183	0	0.52800E-07	377294.6	3747596.2	19.5	3.50	4.00	1.63	YES	
L0002184	0	0.52800E-07	377294.7	3747587.6	19.4	3.50	4.00	1.63	YES	
L0002185	0	0.52800E-07	377294.8	3747579.1	19.4	3.50	4.00	1.63	YES	
L0002186	0	0.52800E-07	377294.8	3747570.5	19.3	3.50	4.00	1.63	YES	
L0002187	0	0.52800E-07	377294.9	3747561.9	19.2	3.50	4.00	1.63	YES	
L0002188	0	0.52800E-07	377294.7	3747553.3	19.2	3.50	4.00	1.63	YES	
L0002189	0	0.52800E-07	377294.1	3747544.7	19.1	3.50	4.00	1.63	YES	
L0002190	0	0.52800E-07	377293.6	3747536.1	19.1	3.50	4.00	1.63	YES	
L0002191	0	0.52800E-07	377293.1	3747527.6	19.1	3.50	4.00	1.63	YES	
L0002192	0	0.52800E-07	377292.5	3747519.0	19.1	3.50	4.00	1.63	YES	
L0002193	0	0.52800E-07	377291.9	3747510.4	19.1	3.50	4.00	1.63	YES	
L0002194	0	0.52800E-07	377289.5	3747502.2	19.0	3.50	4.00	1.63	YES	
L0002195	0	0.52800E-07	377287.2	3747493.9	18.9	3.50	4.00	1.63	YES	
L0002196	0	0.52800E-07	377284.8	3747485.7	18.8	3.50	4.00	1.63	YES	
L0002197	0	0.52800E-07	377282.5	3747477.4	18.7	3.50	4.00	1.63	YES	
L0002198	0	0.52800E-07	377280.1	3747469.1	18.7	3.50	4.00	1.63	YES	
L0002199	0	0.52800E-07	377276.6	3747461.3	18.7	3.50	4.00	1.63	YES	
L0002200	0	0.52800E-07	377273.1	3747453.5	18.7	3.50	4.00	1.63	YES	
L0002201	0	0.52800E-07	377269.6	3747445.6	18.7	3.50	4.00	1.63	YES	
L0002202	0	0.52800E-07	377265.4	3747438.1	18.7	3.50	4.00	1.63	YES	
L0002203	0	0.52800E-07	377270.4	3747432.4	18.7	3.50	4.00	1.63	YES	
L0002204	0	0.52800E-07	377277.1	3747427.2	18.8	3.50	4.00	1.63	YES	
L0002205	0	0.52800E-07	377283.9	3747421.9	18.8	3.50	4.00	1.63	YES	
L0002206	0	0.41370E-07	377291.7	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002207	0	0.41370E-07	377283.1	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002208	0	0.41370E-07	377274.5	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002209	0	0.41370E-07	377265.9	3747243.3	17.8	3.50	4.00	1.63	YES	
L0002210	0	0.41370E-07	377257.3	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002211	0	0.41370E-07	377248.7	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002212	0	0.41370E-07	377240.1	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002213	0	0.41370E-07	377231.6	3747243.3	17.8	3.50	4.00	1.63	YES	
L0002214	0	0.41370E-07	377223.0	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002215	0	0.41370E-07	377214.4	3747243.3	18.0	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
L0002216	0	0.41370E-07	377205.8	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002217	0	0.41370E-07	377197.2	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002218	0	0.41370E-07	377188.6	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002219	0	0.41370E-07	377180.0	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002220	0	0.41370E-07	377171.4	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002221	0	0.41370E-07	377162.8	3747243.3	18.1	3.50	4.00	1.63	YES	
L0002222	0	0.41370E-07	377154.2	3747243.3	18.2	3.50	4.00	1.63	YES	
L0002223	0	0.41370E-07	377145.6	3747243.3	18.3	3.50	4.00	1.63	YES	
L0002224	0	0.41370E-07	377137.1	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002225	0	0.41370E-07	377128.5	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002226	0	0.41370E-07	377119.9	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002227	0	0.41370E-07	377111.3	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002228	0	0.41370E-07	377102.7	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002229	0	0.41370E-07	377094.1	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002230	0	0.41370E-07	377085.5	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002231	0	0.41370E-07	377076.9	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002232	0	0.41370E-07	377068.3	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002233	0	0.41370E-07	377059.7	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002234	0	0.41370E-07	377051.1	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002235	0	0.41370E-07	377042.6	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002236	0	0.41370E-07	377034.0	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002237	0	0.41370E-07	377025.4	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002238	0	0.41370E-07	377016.8	3747243.4	18.9	3.50	4.00	1.63	YES	
L0002239	0	0.41370E-07	377008.2	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002240	0	0.41370E-07	376999.6	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002241	0	0.41370E-07	376991.0	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002242	0	0.41370E-07	376982.4	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002243	0	0.41370E-07	376973.8	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002244	0	0.41370E-07	376965.2	3747243.5	19.0	3.50	4.00	1.63	YES	
L0002245	0	0.41370E-07	376956.6	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002246	0	0.41370E-07	376948.1	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002247	0	0.41370E-07	376939.5	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002248	0	0.41370E-07	376930.9	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002249	0	0.41370E-07	376922.3	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002250	0	0.41370E-07	376913.7	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002251	0	0.41370E-07	376905.1	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002252	0	0.41370E-07	376896.5	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002253	0	0.41370E-07	376887.9	3747243.5	19.3	3.50	4.00	1.63	YES	
L0002254	0	0.41370E-07	376879.3	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002255	0	0.41370E-07	376870.7	3747243.6	19.4	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
L0002256	0	0.41370E-07	376862.1	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002257	0	0.41370E-07	376853.6	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002258	0	0.41370E-07	376845.0	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002259	0	0.41370E-07	376836.4	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002260	0	0.41370E-07	376827.8	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002261	0	0.41370E-07	376819.2	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002262	0	0.41370E-07	376810.6	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002263	0	0.41370E-07	376802.0	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002264	0	0.41370E-07	376793.4	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002265	0	0.41370E-07	376784.8	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002266	0	0.41370E-07	376776.2	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002267	0	0.41370E-07	376767.7	3747243.6	19.6	3.50	4.00	1.63	YES	
L0002268	0	0.41370E-07	376759.1	3747243.6	19.6	3.50	4.00	1.63	YES	
L0002269	0	0.41370E-07	376750.5	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002270	0	0.41370E-07	376741.9	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002271	0	0.41370E-07	376733.3	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002272	0	0.41370E-07	376724.7	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002273	0	0.41370E-07	376716.1	3747243.7	19.8	3.50	4.00	1.63	YES	
L0002274	0	0.41370E-07	376707.5	3747243.7	19.9	3.50	4.00	1.63	YES	
L0002275	0	0.41370E-07	376698.9	3747243.7	19.9	3.50	4.00	1.63	YES	
L0002276	0	0.41370E-07	376690.3	3747243.7	20.0	3.50	4.00	1.63	YES	
L0002277	0	0.41370E-07	376681.7	3747243.7	20.0	3.50	4.00	1.63	YES	
L0002278	0	0.41370E-07	376673.2	3747243.7	20.1	3.50	4.00	1.63	YES	
L0002279	0	0.76740E-07	377300.6	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002280	0	0.76740E-07	377309.2	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002281	0	0.76740E-07	377317.7	3747243.3	18.1	3.50	4.00	1.63	YES	
L0002282	0	0.76740E-07	377326.3	3747243.3	18.2	3.50	4.00	1.63	YES	
L0002283	0	0.76740E-07	377334.9	3747243.3	18.3	3.50	4.00	1.63	YES	
L0002284	0	0.76740E-07	377343.5	3747243.3	18.4	3.50	4.00	1.63	YES	
L0002285	0	0.76740E-07	377352.1	3747243.3	18.5	3.50	4.00	1.63	YES	
L0002286	0	0.76740E-07	377360.7	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002287	0	0.76740E-07	377369.3	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002288	0	0.76740E-07	377377.9	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002289	0	0.76740E-07	377386.5	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002290	0	0.76740E-07	377395.1	3747243.4	18.9	3.50	4.00	1.63	YES	
L0002291	0	0.76740E-07	377403.7	3747243.4	19.0	3.50	4.00	1.63	YES	
L0002292	0	0.76740E-07	377412.2	3747243.4	19.2	3.50	4.00	1.63	YES	
L0002293	0	0.76740E-07	377420.8	3747243.4	19.3	3.50	4.00	1.63	YES	
L0002294	0	0.76740E-07	377429.4	3747243.4	19.4	3.50	4.00	1.63	YES	
L0002295	0	0.76740E-07	377438.0	3747243.4	19.5	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
L0002296	0	0.76740E-07	377446.6	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002297	0	0.76740E-07	377455.2	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002298	0	0.76740E-07	377463.8	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002299	0	0.76740E-07	377472.4	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002300	0	0.76740E-07	377481.0	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002301	0	0.76740E-07	377489.6	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002302	0	0.76740E-07	377498.1	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002303	0	0.76740E-07	377506.7	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002304	0	0.76740E-07	377515.3	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002305	0	0.76740E-07	377523.9	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002306	0	0.76740E-07	377532.5	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002307	0	0.76740E-07	377541.1	3747243.4	19.5	3.50	4.00	1.63	YES	
L0002308	0	0.76740E-07	377549.7	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002309	0	0.76740E-07	377558.3	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002310	0	0.76740E-07	377566.9	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002311	0	0.76740E-07	377575.5	3747243.5	19.4	3.50	4.00	1.63	YES	
L0002312	0	0.76740E-07	377584.1	3747243.5	19.4	3.50	4.00	1.63	YES	
L0002313	0	0.76740E-07	377592.6	3747243.5	19.3	3.50	4.00	1.63	YES	
L0002314	0	0.76740E-07	377601.2	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002315	0	0.76740E-07	377609.8	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002316	0	0.76740E-07	377618.4	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002317	0	0.76740E-07	377627.0	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002318	0	0.76740E-07	377635.6	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002319	0	0.76740E-07	377644.2	3747243.5	19.0	3.50	4.00	1.63	YES	
L0002320	0	0.76740E-07	377652.8	3747243.5	19.0	3.50	4.00	1.63	YES	
L0002321	0	0.76740E-07	377661.4	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002322	0	0.76740E-07	377670.0	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002323	0	0.76740E-07	377678.6	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002324	0	0.76740E-07	377687.1	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002325	0	0.76740E-07	377695.7	3747243.5	18.7	3.50	4.00	1.63	YES	
L0002326	0	0.76740E-07	377704.3	3747243.5	18.7	3.50	4.00	1.63	YES	
L0002327	0	0.76740E-07	377712.9	3747243.5	18.6	3.50	4.00	1.63	YES	
L0002328	0	0.76740E-07	377721.5	3747243.5	18.6	3.50	4.00	1.63	YES	
L0002329	0	0.76740E-07	377730.1	3747243.5	18.5	3.50	4.00	1.63	YES	
L0002330	0	0.76740E-07	377738.7	3747243.6	18.5	3.50	4.00	1.63	YES	
L0002331	0	0.76740E-07	377747.3	3747243.6	18.4	3.50	4.00	1.63	YES	
L0002332	0	0.76740E-07	377755.9	3747243.6	18.4	3.50	4.00	1.63	YES	

L0002333	0	0.76740E-07	377764.5	3747243.6	18.3	3.50	4.00	1.63	YES
L0002334	0	0.76740E-07	377773.1	3747243.6	18.2	3.50	4.00	1.63	YES
L0002335	0	0.76740E-07	377781.6	3747243.6	18.2	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
L0002336	0	0.76740E-07	377790.2	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002337	0	0.76740E-07	377798.8	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002338	0	0.76740E-07	377807.4	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002339	0	0.76740E-07	377816.0	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002340	0	0.76740E-07	377824.6	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002341	0	0.76740E-07	377833.2	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002342	0	0.76740E-07	377841.8	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002343	0	0.76740E-07	377850.4	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002344	0	0.76740E-07	377859.0	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002345	0	0.76740E-07	377867.6	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002346	0	0.76740E-07	377876.1	3747243.6	18.4	3.50	4.00	1.63	YES	
L0002347	0	0.76740E-07	377884.7	3747243.6	18.4	3.50	4.00	1.63	YES	
L0002348	0	0.76740E-07	377893.3	3747243.6	18.5	3.50	4.00	1.63	YES	
L0002349	0	0.76740E-07	377901.9	3747243.6	18.6	3.50	4.00	1.63	YES	
L0002350	0	0.76740E-07	377910.5	3747243.6	18.6	3.50	4.00	1.63	YES	
L0002351	0	0.76740E-07	377919.1	3747243.6	18.7	3.50	4.00	1.63	YES	
L0002352	0	0.76740E-07	377927.7	3747243.7	18.7	3.50	4.00	1.63	YES	
L0002353	0	0.76740E-07	377936.3	3747243.7	18.8	3.50	4.00	1.63	YES	
L0002354	0	0.76740E-07	377944.9	3747243.7	18.9	3.50	4.00	1.63	YES	
L0002355	0	0.76740E-07	377953.5	3747243.7	19.1	3.50	4.00	1.63	YES	
L0002356	0	0.76740E-07	377962.1	3747243.7	19.2	3.50	4.00	1.63	YES	
L0002357	0	0.76740E-07	377970.6	3747243.7	19.1	3.50	4.00	1.63	YES	
L0002358	0	0.76740E-07	377979.2	3747243.7	19.1	3.50	4.00	1.63	YES	
L0002359	0	0.76740E-07	377987.8	3747243.7	19.1	3.50	4.00	1.63	YES	
L0002360	0	0.76740E-07	377996.4	3747243.7	19.2	3.50	4.00	1.63	YES	
L0002361	0	0.76740E-07	378005.0	3747243.7	19.2	3.50	4.00	1.63	YES	
L0002362	0	0.76740E-07	378013.6	3747243.7	19.2	3.50	4.00	1.63	YES	
L0002363	0	0.76740E-07	378022.2	3747243.7	19.3	3.50	4.00	1.63	YES	
L0002364	0	0.76740E-07	378030.8	3747243.7	19.3	3.50	4.00	1.63	YES	
L0002365	0	0.76740E-07	378039.4	3747243.7	19.4	3.50	4.00	1.63	YES	
L0002366	0	0.76740E-07	378048.0	3747243.7	19.5	3.50	4.00	1.63	YES	
L0002367	0	0.76740E-07	378056.6	3747243.7	19.6	3.50	4.00	1.63	YES	
L0002368	0	0.76740E-07	378065.1	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002369	0	0.76740E-07	378073.7	3747243.7	19.7	3.50	4.00	1.63	YES	

L0002370	0	0.76740E-07	378082.3	3747243.7	19.7	3.50	4.00	1.63	YES
L0002371	0	0.76740E-07	378090.9	3747243.7	19.8	3.50	4.00	1.63	YES
L0002372	0	0.76740E-07	378099.5	3747243.7	19.8	3.50	4.00	1.63	YES
L0002373	0	0.76740E-07	378108.1	3747243.7	19.9	3.50	4.00	1.63	YES
L0002374	0	0.76740E-07	378116.7	3747243.8	19.9	3.50	4.00	1.63	YES
L0002375	0	0.76740E-07	378125.3	3747243.8	19.9	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
L0002376	0	0.76740E-07	378133.9	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002377	0	0.76740E-07	378142.5	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002378	0	0.76740E-07	378151.1	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002379	0	0.76740E-07	378159.6	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002380	0	0.76740E-07	378168.2	3747243.8	19.8	3.50	4.00	1.63	YES	
L0002381	0	0.76740E-07	378176.8	3747243.8	19.8	3.50	4.00	1.63	YES	
L0002382	0	0.76740E-07	378185.4	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002383	0	0.76740E-07	378194.0	3747243.8	19.6	3.50	4.00	1.63	YES	
L0002384	0	0.76740E-07	378202.6	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002385	0	0.76740E-07	378211.2	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002386	0	0.76740E-07	378219.8	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002387	0	0.76740E-07	378228.4	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002388	0	0.76740E-07	378237.0	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002389	0	0.76740E-07	378245.5	3747243.8	19.6	3.50	4.00	1.63	YES	
L0002390	0	0.76740E-07	378254.1	3747243.8	19.5	3.50	4.00	1.63	YES	
L0002391	0	0.76740E-07	378262.7	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002392	0	0.76740E-07	378271.3	3747243.8	19.3	3.50	4.00	1.63	YES	
L0002393	0	0.76740E-07	378279.9	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002394	0	0.76740E-07	378288.5	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002395	0	0.76740E-07	378297.1	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002396	0	0.76740E-07	378305.7	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002397	0	0.76740E-07	378314.3	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002398	0	0.76740E-07	378322.9	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002399	0	0.76740E-07	378331.5	3747243.9	19.3	3.50	4.00	1.63	YES	
L0002400	0	0.76740E-07	378340.0	3747243.9	19.3	3.50	4.00	1.63	YES	
L0002401	0	0.76740E-07	378348.6	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002402	0	0.76740E-07	378357.2	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002403	0	0.76740E-07	378365.8	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002404	0	0.76740E-07	378374.4	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002405	0	0.76740E-07	378383.0	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002406	0	0.76740E-07	378391.6	3747243.9	19.2	3.50	4.00	1.63	YES	

L0002407	0	0.76740E-07	378400.2	3747243.9	19.2	3.50	4.00	1.63	YES
L0002408	0	0.76740E-07	378408.8	3747243.9	19.1	3.50	4.00	1.63	YES
L0002409	0	0.76740E-07	378417.4	3747243.9	19.0	3.50	4.00	1.63	YES
L0002410	0	0.76740E-07	378426.0	3747243.9	19.0	3.50	4.00	1.63	YES
L0002411	0	0.76740E-07	378434.5	3747243.9	19.1	3.50	4.00	1.63	YES
L0002412	0	0.76740E-07	378443.1	3747243.9	19.2	3.50	4.00	1.63	YES
L0002413	0	0.76740E-07	378451.7	3747243.9	19.2	3.50	4.00	1.63	YES
L0002414	0	0.76740E-07	378460.3	3747243.9	19.2	3.50	4.00	1.63	YES
L0002415	0	0.76740E-07	378468.9	3747243.9	19.2	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
L0002416	0	0.76740E-07	378477.5	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002417	0	0.76740E-07	378486.1	3747243.9	19.1	3.50	4.00	1.63	YES	
L0002418	0	0.76740E-07	378494.7	3747244.0	19.0	3.50	4.00	1.63	YES	
L0002419	0	0.76740E-07	378503.3	3747244.0	19.0	3.50	4.00	1.63	YES	
L0002420	0	0.76740E-07	378511.9	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002421	0	0.76740E-07	378520.5	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002422	0	0.76740E-07	378529.0	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002423	0	0.76740E-07	378537.6	3747244.0	18.8	3.50	4.00	1.63	YES	
L0002424	0	0.76740E-07	378546.2	3747244.0	18.8	3.50	4.00	1.63	YES	
L0002425	0	0.76740E-07	378554.8	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002426	0	0.76740E-07	378563.4	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002427	0	0.76740E-07	378572.0	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002428	0	0.76740E-07	378580.6	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002429	0	0.76740E-07	378589.2	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002430	0	0.76740E-07	378597.8	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002431	0	0.76740E-07	378606.4	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002432	0	0.76740E-07	378615.0	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002433	0	0.76740E-07	378623.5	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002434	0	0.76740E-07	378632.1	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002435	0	0.76740E-07	378640.7	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002436	0	0.76740E-07	378649.3	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002437	0	0.76740E-07	378657.9	3747244.0	18.5	3.50	4.00	1.63	YES	
L0002438	0	0.76740E-07	378666.5	3747244.0	18.4	3.50	4.00	1.63	YES	
L0002439	0	0.76740E-07	378675.1	3747244.0	18.4	3.50	4.00	1.63	YES	
L0002440	0	0.76740E-07	378683.7	3747244.1	18.3	3.50	4.00	1.63	YES	
L0002441	0	0.76740E-07	378692.3	3747244.1	18.4	3.50	4.00	1.63	YES	
L0002442	0	0.76740E-07	378700.9	3747244.1	18.4	3.50	4.00	1.63	YES	
L0002443	0	0.76740E-07	378709.5	3747244.1	18.4	3.50	4.00	1.63	YES	

L0002444	0	0.76740E-07	378718.0	3747244.1	18.4	3.50	4.00	1.63	YES
L0002445	0	0.76740E-07	378726.6	3747244.1	18.4	3.50	4.00	1.63	YES
L0002446	0	0.76740E-07	378735.2	3747244.1	18.3	3.50	4.00	1.63	YES
L0002447	0	0.76740E-07	378743.8	3747244.1	18.2	3.50	4.00	1.63	YES
L0002448	0	0.76740E-07	378752.4	3747244.1	18.2	3.50	4.00	1.63	YES
L0002449	0	0.76740E-07	378761.0	3747244.1	18.1	3.50	4.00	1.63	YES
L0002450	0	0.76740E-07	378769.6	3747244.1	18.1	3.50	4.00	1.63	YES
L0002451	0	0.27000E-06	377316.3	3747420.1	19.0	3.50	4.00	5.10	YES
L0002452	0	0.27000E-06	377324.7	3747421.7	19.0	3.50	4.00	5.10	YES
L0002453	0	0.27000E-06	377333.3	3747421.8	19.1	3.50	4.00	5.10	YES
L0002454	0	0.27000E-06	377341.9	3747421.8	19.1	3.50	4.00	5.10	YES
L0002455	0	0.27000E-06	377350.5	3747421.9	19.2	3.50	4.00	5.10	YES

*** 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
L0002456	0	0.27000E-06	377359.1	3747422.0	19.2	3.50	4.00	5.10	YES	
L0002457	0	0.27000E-06	377367.7	3747422.0	19.3	3.50	4.00	5.10	YES	
L0002458	0	0.27000E-06	377376.2	3747422.1	19.4	3.50	4.00	5.10	YES	
L0002459	0	0.27000E-06	377384.8	3747422.1	19.4	3.50	4.00	5.10	YES	
L0002460	0	0.27000E-06	377393.4	3747422.2	19.5	3.50	4.00	5.10	YES	
L0002461	0	0.27000E-06	377402.0	3747422.3	19.5	3.50	4.00	5.10	YES	
L0002462	0	0.27000E-06	377410.6	3747422.3	19.6	3.50	4.00	5.10	YES	
L0002463	0	0.27000E-06	377419.2	3747422.4	19.7	3.50	4.00	5.10	YES	
L0002464	0	0.27000E-06	377427.8	3747422.4	19.7	3.50	4.00	5.10	YES	
L0002465	0	0.27000E-06	377436.4	3747422.5	19.8	3.50	4.00	5.10	YES	
L0002466	0	0.27000E-06	377445.0	3747422.6	19.8	3.50	4.00	5.10	YES	
L0002467	0	0.27000E-06	377453.6	3747422.6	19.9	3.50	4.00	5.10	YES	
L0002468	0	0.27000E-06	377462.1	3747422.7	19.9	3.50	4.00	5.10	YES	
L0002469	0	0.27000E-06	377470.7	3747422.7	20.0	3.50	4.00	5.10	YES	
L0002470	0	0.27000E-06	377479.3	3747422.8	20.1	3.50	4.00	5.10	YES	
L0002471	0	0.27000E-06	377487.9	3747422.8	20.1	3.50	4.00	5.10	YES	
L0002472	0	0.27000E-06	377496.5	3747422.9	20.2	3.50	4.00	5.10	YES	
L0002473	0	0.27000E-06	377505.1	3747423.0	20.2	3.50	4.00	5.10	YES	
L0002474	0	0.27000E-06	377513.7	3747423.0	20.2	3.50	4.00	5.10	YES	
L0002475	0	0.27000E-06	377522.3	3747423.1	20.3	3.50	4.00	5.10	YES	
L0002476	0	0.27000E-06	377530.9	3747423.1	20.4	3.50	4.00	5.10	YES	
L0002477	0	0.27000E-06	377539.5	3747423.2	20.5	3.50	4.00	5.10	YES	
L0002478	0	0.27000E-06	377548.1	3747423.3	20.6	3.50	4.00	5.10	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002136 , L0002137 ,
	L0002138 , L0002139 , L0002140 , L0002141 , L0002142 , L0002143 , L0002144 , L0002145 ,
	L0002146 , L0002147 , L0002148 , L0002149 , L0002150 , L0002151 , L0002152 , L0002153 ,
	L0002154 , L0002155 , L0002156 , L0002157 , L0002158 , L0002159 , L0002160 , L0002161 ,
	L0002162 , L0002163 , L0002164 , L0002165 , L0002166 , L0002167 , L0002168 , L0002169 ,
	L0002170 , L0002171 , L0002172 , L0002173 , L0002174 , L0002175 , L0002176 , L0002177 ,
	L0002178 , L0002179 , L0002180 , L0002181 , L0002182 , L0002183 , L0002184 , L0002185 ,
	L0002186 , L0002187 , L0002188 , L0002189 , L0002190 , L0002191 , L0002192 , L0002193 ,
	L0002194 , L0002195 , L0002196 , L0002197 , L0002198 , L0002199 , L0002200 , L0002201 ,
	L0002202 , L0002203 , L0002204 , L0002205 , L0002206 , L0002207 , L0002208 , L0002209 ,
	L0002210 , L0002211 , L0002212 , L0002213 , L0002214 , L0002215 , L0002216 , L0002217 ,
	L0002218 , L0002219 , L0002220 , L0002221 , L0002222 , L0002223 , L0002224 , L0002225 ,
	L0002226 , L0002227 , L0002228 , L0002229 , L0002230 , L0002231 , L0002232 , L0002233 ,
	L0002234 , L0002235 , L0002236 , L0002237 , L0002238 , L0002239 , L0002240 , L0002241 ,
	L0002242 , L0002243 , L0002244 , L0002245 , L0002246 , L0002247 , L0002248 , L0002249 ,
	L0002250 , L0002251 , L0002252 , L0002253 , L0002254 , L0002255 , L0002256 , L0002257 ,
	L0002258 , L0002259 , L0002260 , L0002261 , L0002262 , L0002263 , L0002264 , L0002265 ,
	L0002266 , L0002267 , L0002268 , L0002269 , L0002270 , L0002271 , L0002272 , L0002273 ,
	L0002274 , L0002275 , L0002276 , L0002277 , L0002278 , L0002279 , L0002280 , L0002281 ,
	L0002282 , L0002283 , L0002284 , L0002285 , L0002286 , L0002287 , L0002288 , L0002289 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0002290 , L0002291 , L0002292 , L0002293 , L0002294 , L0002295 , L0002296 , L0002297 ,
	L0002298 , L0002299 , L0002300 , L0002301 , L0002302 , L0002303 , L0002304 , L0002305 ,
	L0002306 , L0002307 , L0002308 , L0002309 , L0002310 , L0002311 , L0002312 , L0002313 ,
	L0002314 , L0002315 , L0002316 , L0002317 , L0002318 , L0002319 , L0002320 , L0002321 ,
	L0002322 , L0002323 , L0002324 , L0002325 , L0002326 , L0002327 , L0002328 , L0002329 ,
	L0002330 , L0002331 , L0002332 , L0002333 , L0002334 , L0002335 , L0002336 , L0002337 ,
	L0002338 , L0002339 , L0002340 , L0002341 , L0002342 , L0002343 , L0002344 , L0002345 ,
	L0002346 , L0002347 , L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 ,
	L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 ,
	L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 ,
	L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , L0002376 , L0002377 ,
	L0002378 , L0002379 , L0002380 , L0002381 , L0002382 , L0002383 , L0002384 , L0002385 ,
	L0002386 , L0002387 , L0002388 , L0002389 , L0002390 , L0002391 , L0002392 , L0002393 ,
	L0002394 , L0002395 , L0002396 , L0002397 , L0002398 , L0002399 , L0002400 , L0002401 ,
	L0002402 , L0002403 , L0002404 , L0002405 , L0002406 , L0002407 , L0002408 , L0002409 ,
	L0002410 , L0002411 , L0002412 , L0002413 , L0002414 , L0002415 , L0002416 , L0002417 ,
	L0002418 , L0002419 , L0002420 , L0002421 , L0002422 , L0002423 , L0002424 , L0002425 ,
	L0002426 , L0002427 , L0002428 , L0002429 , L0002430 , L0002431 , L0002432 , L0002433 ,
	L0002434 , L0002435 , L0002436 , L0002437 , L0002438 , L0002439 , L0002440 , L0002441 ,
	L0002442 , L0002443 , L0002444 , L0002445 , L0002446 , L0002447 , L0002448 , L0002449 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0002450 , L0002451 , L0002452 , L0002453 , L0002454 , L0002455 , L0002456 , L0002457 ,
	L0002458 , L0002459 , L0002460 , L0002461 , L0002462 , L0002463 , L0002464 , L0002465 ,
	L0002466 , L0002467 , L0002468 , L0002469 , L0002470 , L0002471 , L0002472 , L0002473 ,
	L0002474 , L0002475 , L0002476 , L0002477 , L0002478 ,

*** AERMOD - VERSION 21112 *** *** 190th St Warehouse 2YR *** 08/29/22
*** AERMET - VERSION 16216 *** *** DPM concentrations 2025-2026 *** 07:53:26

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002136 , L0002137 ,
		L0002138 , L0002139 , L0002140 , L0002141 , L0002142 , L0002143 , L0002144 , L0002145 ,
		L0002146 , L0002147 , L0002148 , L0002149 , L0002150 , L0002151 , L0002152 , L0002153 ,
		L0002154 , L0002155 , L0002156 , L0002157 , L0002158 , L0002159 , L0002160 , L0002161 ,
		L0002162 , L0002163 , L0002164 , L0002165 , L0002166 , L0002167 , L0002168 , L0002169 ,
		L0002170 , L0002171 , L0002172 , L0002173 , L0002174 , L0002175 , L0002176 , L0002177 ,
		L0002178 , L0002179 , L0002180 , L0002181 , L0002182 , L0002183 , L0002184 , L0002185 ,
		L0002186 , L0002187 , L0002188 , L0002189 , L0002190 , L0002191 , L0002192 , L0002193 ,
		L0002194 , L0002195 , L0002196 , L0002197 , L0002198 , L0002199 , L0002200 , L0002201 ,

L0002202 , L0002203 , L0002204 , L0002205 , L0002206 , L0002207 , L0002208 , L0002209 ,

L0002210 , L0002211 , L0002212 , L0002213 , L0002214 , L0002215 , L0002216 , L0002217 ,

L0002218 , L0002219 , L0002220 , L0002221 , L0002222 , L0002223 , L0002224 , L0002225 ,

L0002226 , L0002227 , L0002228 , L0002229 , L0002230 , L0002231 , L0002232 , L0002233 ,

L0002234 , L0002235 , L0002236 , L0002237 , L0002238 , L0002239 , L0002240 , L0002241 ,

L0002242 , L0002243 , L0002244 , L0002245 , L0002246 , L0002247 , L0002248 , L0002249 ,

L0002250 , L0002251 , L0002252 , L0002253 , L0002254 , L0002255 , L0002256 , L0002257 ,

L0002258 , L0002259 , L0002260 , L0002261 , L0002262 , L0002263 , L0002264 , L0002265 ,

L0002266 , L0002267 , L0002268 , L0002269 , L0002270 , L0002271 , L0002272 , L0002273 ,

L0002274 , L0002275 , L0002276 , L0002277 , L0002278 , L0002279 , L0002280 , L0002281 ,

L0002282 , L0002283 , L0002284 , L0002285 , L0002286 , L0002287 , L0002288 , L0002289 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0002290 , L0002291 , L0002292 , L0002293 , L0002294 , L0002295 , L0002296 , L0002297 ,

L0002298 , L0002299 , L0002300 , L0002301 , L0002302 , L0002303 , L0002304 , L0002305 ,

L0002306 , L0002307 , L0002308 , L0002309 , L0002310 , L0002311 , L0002312 , L0002313 ,

L0002314 , L0002315 , L0002316 , L0002317 , L0002318 , L0002319 , L0002320 , L0002321 ,

L0002322 , L0002323 , L0002324 , L0002325 , L0002326 , L0002327 , L0002328 , L0002329 ,

L0002330 , L0002331 , L0002332 , L0002333 , L0002334 , L0002335 , L0002336 , L0002337 ,

L0002338 , L0002339 , L0002340 , L0002341 , L0002342 , L0002343 , L0002344 , L0002345 ,

L0002346 , L0002347 , L0002348 , L0002349 , L0002350 , L0002351 , L0002352 , L0002353 ,

L0002354 , L0002355 , L0002356 , L0002357 , L0002358 , L0002359 , L0002360 , L0002361 ,

L0002362 , L0002363 , L0002364 , L0002365 , L0002366 , L0002367 , L0002368 , L0002369 ,

L0002370 , L0002371 , L0002372 , L0002373 , L0002374 , L0002375 , L0002376 , L0002377 ,

L0002378 , L0002379 , L0002380 , L0002381 , L0002382 , L0002383 , L0002384 , L0002385 ,

L0002386 , L0002387 , L0002388 , L0002389 , L0002390 , L0002391 , L0002392 , L0002393 ,

L0002394 , L0002395 , L0002396 , L0002397 , L0002398 , L0002399 , L0002400 , L0002401 ,

L0002402 , L0002403 , L0002404 , L0002405 , L0002406 , L0002407 , L0002408 , L0002409 ,

L0002410 , L0002411 , L0002412 , L0002413 , L0002414 , L0002415 , L0002416 , L0002417 ,

L0002418 , L0002419 , L0002420 , L0002421 , L0002422 , L0002423 , L0002424 , L0002425 ,

L0002426 , L0002427 , L0002428 , L0002429 , L0002430 , L0002431 , L0002432 , L0002433 ,

L0002434 , L0002435 , L0002436 , L0002437 , L0002438 , L0002439 , L0002440 , L0002441 ,

L0002442 , L0002443 , L0002444 , L0002445 , L0002446 , L0002447 , L0002448 , L0002449 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0002450 , L0002451 , L0002452 , L0002453 , L0002454 , L0002455 , L0002456 , L0002457 ,

L0002458 , L0002459 , L0002460 , L0002461 , L0002462 , L0002463 , L0002464 , L0002465 ,

L0002466 , L0002467 , L0002468 , L0002469 , L0002470 , L0002471 , L0002472 , L0002473 ,

L0002474 , L0002475 , L0002476 , L0002477 , L0002478 ,

*** 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	11.0,	257.2,	159.0,	-105.2,	-101.5,	2	11.0,	262.6,	195.6,	-105.3,	-106.1,
3	11.0,	259.9,	226.2,	-102.2,	-107.4,	4	11.0,	249.4,	249.9,	-96.0,	-105.5,
5	11.0,	231.3,	266.0,	-86.8,	-100.5,	6	11.0,	206.2,	274.0,	-75.0,	-92.3,
7	11.0,	174.8,	273.8,	-60.9,	-81.3,	8	11.0,	138.1,	265.2,	-45.0,	-67.9,
9	11.0,	117.9,	249.9,	-28.2,	-43.0,	10	11.0,	159.0,	257.2,	-27.1,	-25.7,
11	11.0,	195.6,	262.6,	-25.2,	-7.5,	12	11.0,	226.2,	259.9,	-22.5,	10.9,
13	11.0,	249.9,	249.4,	-19.2,	29.0,	14	11.0,	266.0,	231.3,	-15.2,	46.2,
15	11.0,	274.0,	206.2,	-10.8,	62.0,	16	11.0,	273.8,	174.8,	-6.0,	75.9,
17	11.0,	265.2,	138.1,	-1.1,	87.5,	18	11.0,	249.9,	117.9,	-15.9,	96.7,
19	11.0,	257.2,	159.0,	-53.8,	101.5,	20	11.0,	262.6,	195.6,	-90.2,	106.1,
21	11.0,	259.9,	226.2,	-124.0,	107.4,	22	11.0,	249.4,	249.9,	-153.9,	105.5,
23	11.0,	231.3,	266.0,	-179.2,	100.5,	24	11.0,	206.2,	274.0,	-199.0,	92.3,
25	11.0,	174.8,	273.8,	-212.8,	81.3,	26	11.0,	138.1,	265.2,	-220.1,	67.9,
27	11.0,	117.9,	249.9,	-221.7,	43.0,	28	11.0,	159.0,	257.2,	-230.1,	25.7,
29	11.0,	195.6,	262.6,	-237.4,	7.5,	30	11.0,	226.2,	259.9,	-237.4,	-10.9,
31	11.0,	249.9,	249.4,	-230.2,	-29.0,	32	11.0,	266.0,	231.3,	-216.1,	-46.2,
33	11.0,	274.0,	206.2,	-195.4,	-62.0,	34	11.0,	273.8,	174.8,	-168.7,	-75.9,
35	11.0,	265.2,	138.1,	-137.0,	-87.5,	36	11.0,	249.9,	117.9,	-102.0,	-96.7,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-113.9,	-56.6,	2	11.0,	262.6,	195.6,	-121.6,	-63.4,
3	11.0,	259.9,	226.2,	-125.7,	-68.2,	4	11.0,	249.4,	249.9,	-125.9,	-71.0,
5	11.0,	231.3,	266.0,	-122.3,	-71.6,	6	11.0,	206.2,	274.0,	-115.0,	-70.1,
7	11.0,	174.8,	273.8,	-104.1,	-66.4,	8	11.0,	138.1,	265.2,	-90.2,	-60.7,
9	11.0,	117.9,	249.9,	-73.9,	-43.8,	10	11.0,	159.0,	257.2,	-72.0,	-34.4,
11	11.0,	195.6,	262.6,	-67.9,	-23.9,	12	11.0,	226.2,	259.9,	-61.7,	-12.6,
13	11.0,	249.9,	249.4,	-53.7,	-1.0,	14	11.0,	266.0,	231.3,	-44.0,	10.7,
15	11.0,	274.0,	206.2,	-33.0,	22.1,	16	11.0,	273.8,	174.8,	-21.0,	32.7,
17	11.0,	265.2,	138.1,	-8.3,	42.4,	18	11.0,	249.9,	117.9,	-15.2,	51.0,
19	11.0,	257.2,	159.0,	-45.1,	56.6,	20	11.0,	262.6,	195.6,	-73.9,	63.4,
21	11.0,	259.9,	226.2,	-100.5,	68.2,	22	11.0,	249.4,	249.9,	-124.0,	71.0,
23	11.0,	231.3,	266.0,	-143.7,	71.6,	24	11.0,	206.2,	274.0,	-159.1,	70.1,
25	11.0,	174.8,	273.8,	-169.6,	66.4,	26	11.0,	138.1,	265.2,	-175.0,	60.7,
27	11.0,	117.9,	249.9,	-176.0,	43.8,	28	11.0,	159.0,	257.2,	-185.2,	34.4,
29	11.0,	195.6,	262.6,	-194.7,	23.9,	30	11.0,	226.2,	259.9,	-198.2,	12.6,
31	11.0,	249.9,	249.4,	-195.7,	1.0,	32	11.0,	266.0,	231.3,	-187.3,	-10.7,
33	11.0,	274.0,	206.2,	-173.2,	-22.1,	34	11.0,	273.8,	174.8,	-153.8,	-32.7,
35	11.0,	265.2,	138.1,	-129.8,	-42.4,	36	11.0,	249.9,	117.9,	-102.7,	-51.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-120.8,	-16.9,	2	11.0,	262.6,	195.6,	-135.3,	-25.5,
3	11.0,	259.9,	226.2,	-145.7,	-33.3,	4	11.0,	249.4,	249.9,	-151.7,	-40.0,
5	11.0,	231.3,	266.0,	-153.1,	-45.6,	6	11.0,	206.2,	274.0,	-149.8,	-49.8,
7	11.0,	174.8,	273.8,	-142.0,	-52.5,	8	11.0,	138.1,	265.2,	-129.8,	-53.6,

9	11.0,	117.9,	249.9,	-114.2,	-43.6,	10	11.0,	159.0,	257.2,	-111.7,	-41.2,
11	11.0,	195.6,	262.6,	-105.8,	-37.5,	12	11.0,	226.2,	259.9,	-96.7,	-32.6,
13	11.0,	249.9,	249.4,	-84.6,	-26.8,	14	11.0,	266.0,	231.3,	-70.0,	-20.1,
15	11.0,	274.0,	206.2,	-53.3,	-12.8,	16	11.0,	273.8,	174.8,	-34.9,	-5.1,
17	11.0,	265.2,	138.1,	-15.5,	2.8,	18	11.0,	249.9,	117.9,	-15.3,	10.7,
19	11.0,	257.2,	159.0,	-38.3,	16.9,	20	11.0,	262.6,	195.6,	-60.3,	25.5,
21	11.0,	259.9,	226.2,	-80.5,	33.3,	22	11.0,	249.4,	249.9,	-98.2,	40.0,
23	11.0,	231.3,	266.0,	-112.9,	45.6,	24	11.0,	206.2,	274.0,	-124.2,	49.8,
25	11.0,	174.8,	273.8,	-131.8,	52.5,	26	11.0,	138.1,	265.2,	-135.3,	53.6,
27	11.0,	117.9,	249.9,	-135.7,	43.6,	28	11.0,	159.0,	257.2,	-145.5,	41.2,
29	11.0,	195.6,	262.6,	-156.7,	37.5,	30	11.0,	226.2,	259.9,	-163.2,	32.6,
31	11.0,	249.9,	249.4,	-164.8,	26.8,	32	11.0,	266.0,	231.3,	-161.3,	20.1,
33	11.0,	274.0,	206.2,	-152.9,	12.8,	34	11.0,	273.8,	174.8,	-139.9,	5.1,
35	11.0,	265.2,	138.1,	-122.6,	-2.8,	36	11.0,	249.9,	117.9,	-102.6,	-10.7,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-125.9,	12.4,	2	11.0,	262.6,	195.6,	-145.4,	2.4,
3	11.0,	259.9,	226.2,	-160.5,	-7.5,	4	11.0,	249.4,	249.9,	-170.8,	-17.3,
5	11.0,	231.3,	266.0,	-175.8,	-26.5,	6	11.0,	206.2,	274.0,	-175.5,	-35.0,
7	11.0,	174.8,	273.8,	-169.9,	-42.3,	8	11.0,	138.1,	265.2,	-159.1,	-48.4,
9	11.0,	117.9,	249.9,	-143.9,	-43.6,	10	11.0,	159.0,	257.2,	-141.0,	-46.4,
11	11.0,	195.6,	262.6,	-133.7,	-47.7,	12	11.0,	226.2,	259.9,	-122.4,	-47.5,
13	11.0,	249.9,	249.4,	-107.4,	-45.8,	14	11.0,	266.0,	231.3,	-89.1,	-42.8,
15	11.0,	274.0,	206.2,	-68.1,	-38.5,	16	11.0,	273.8,	174.8,	-45.1,	-33.0,
17	11.0,	265.2,	138.1,	-20.6,	-26.5,	18	11.0,	249.9,	117.9,	-15.3,	-18.9,
19	11.0,	257.2,	159.0,	-33.1,	-12.4,	20	11.0,	262.6,	195.6,	-50.1,	-2.4,
21	11.0,	259.9,	226.2,	-65.6,	7.5,	22	11.0,	249.4,	249.9,	-79.1,	17.3,
23	11.0,	231.3,	266.0,	-90.2,	26.5,	24	11.0,	206.2,	274.0,	-98.5,	35.0,
25	11.0,	174.8,	273.8,	-103.9,	42.3,	26	11.0,	138.1,	265.2,	-106.1,	48.4,
27	11.0,	117.9,	249.9,	-106.0,	43.6,	28	11.0,	159.0,	257.2,	-116.2,	46.4,
29	11.0,	195.6,	262.6,	-128.8,	47.7,	30	11.0,	226.2,	259.9,	-137.5,	47.5,
31	11.0,	249.9,	249.4,	-142.0,	45.8,	32	11.0,	266.0,	231.3,	-142.2,	42.8,
33	11.0,	274.0,	206.2,	-138.1,	38.5,	34	11.0,	273.8,	174.8,	-129.7,	33.0,
35	11.0,	265.2,	138.1,	-117.5,	26.5,	36	11.0,	249.9,	117.9,	-102.6,	18.9,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-132.3,	41.9,	2	11.0,	262.6,	195.6,	-156.9,	30.5,
3	11.0,	259.9,	226.2,	-176.7,	18.1,	4	11.0,	249.4,	249.9,	-191.1,	5.1,
5	11.0,	231.3,	266.0,	-199.7,	-8.0,	6	11.0,	206.2,	274.0,	-202.3,	-20.9,

7	11.0,	174.8,	273.8,	-198.7,	-33.1,	8	11.0,	138.1,	265.2,	-189.1,	-44.3,
9	11.0,	117.9,	249.9,	-174.2,	-44.8,	10	11.0,	159.0,	257.2,	-170.5,	-52.8,
11	11.0,	195.6,	262.6,	-161.7,	-59.1,	12	11.0,	226.2,	259.9,	-148.0,	-63.6,
13	11.0,	249.9,	249.4,	-129.8,	-66.2,	14	11.0,	266.0,	231.3,	-107.6,	-66.7,
15	11.0,	274.0,	206.2,	-82.2,	-65.3,	16	11.0,	273.8,	174.8,	-54.3,	-61.8,
17	11.0,	265.2,	138.1,	-24.7,	-56.5,	18	11.0,	249.9,	117.9,	-14.2,	-49.2,
19	11.0,	257.2,	159.0,	-26.7,	-41.9,	20	11.0,	262.6,	195.6,	-38.7,	-30.5,
21	11.0,	259.9,	226.2,	-49.5,	-18.1,	22	11.0,	249.4,	249.9,	-58.8,	-5.1,
23	11.0,	231.3,	266.0,	-66.3,	8.0,	24	11.0,	206.2,	274.0,	-71.8,	20.9,
25	11.0,	174.8,	273.8,	-75.1,	33.1,	26	11.0,	138.1,	265.2,	-76.1,	44.3,
27	11.0,	117.9,	249.9,	-75.8,	44.8,	28	11.0,	159.0,	257.2,	-86.7,	52.8,
29	11.0,	195.6,	262.6,	-100.8,	59.1,	30	11.0,	226.2,	259.9,	-111.9,	63.6,
31	11.0,	249.9,	249.4,	-119.6,	66.2,	32	11.0,	266.0,	231.3,	-123.6,	66.7,
33	11.0,	274.0,	206.2,	-124.0,	65.3,	34	11.0,	273.8,	174.8,	-120.5,	61.8,
35	11.0,	265.2,	138.1,	-113.4,	56.5,	36	11.0,	249.9,	117.9,	-103.7,	49.2,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-136.6,	73.5,	2	11.0,	262.6,	195.6,	-166.5,	60.8,
3	11.0,	259.9,	226.2,	-191.5,	46.3,	4	11.0,	249.4,	249.9,	-210.6,	30.4,
5	11.0,	231.3,	266.0,	-223.3,	13.5,	6	11.0,	206.2,	274.0,	-229.2,	-3.8,
7	11.0,	174.8,	273.8,	-228.2,	-21.0,	8	11.0,	138.1,	265.2,	-220.2,	-37.5,
9	11.0,	117.9,	249.9,	-206.0,	-43.5,	10	11.0,	159.0,	257.2,	-202.1,	-57.0,
11	11.0,	195.6,	262.6,	-192.1,	-68.8,	12	11.0,	226.2,	259.9,	-176.3,	-78.4,
13	11.0,	249.9,	249.4,	-155.1,	-85.6,	14	11.0,	266.0,	231.3,	-129.1,	-90.3,
15	11.0,	274.0,	206.2,	-99.3,	-92.2,	16	11.0,	273.8,	174.8,	-66.4,	-91.3,
17	11.0,	265.2,	138.1,	-31.6,	-87.6,	18	11.0,	249.9,	117.9,	-15.5,	-81.0,
19	11.0,	257.2,	159.0,	-22.5,	-73.5,	20	11.0,	262.6,	195.6,	-29.0,	-60.8,
21	11.0,	259.9,	226.2,	-34.7,	-46.3,	22	11.0,	249.4,	249.9,	-39.3,	-30.4,
23	11.0,	231.3,	266.0,	-42.7,	-13.5,	24	11.0,	206.2,	274.0,	-44.8,	3.8,
25	11.0,	174.8,	273.8,	-45.6,	21.0,	26	11.0,	138.1,	265.2,	-45.0,	37.5,
27	11.0,	117.9,	249.9,	-43.9,	43.5,	28	11.0,	159.0,	257.2,	-55.1,	57.0,
29	11.0,	195.6,	262.6,	-70.4,	68.8,	30	11.0,	226.2,	259.9,	-83.7,	78.4,
31	11.0,	249.9,	249.4,	-94.4,	85.6,	32	11.0,	266.0,	231.3,	-102.2,	90.3,
33	11.0,	274.0,	206.2,	-106.9,	92.2,	34	11.0,	273.8,	174.8,	-108.4,	91.3,
35	11.0,	265.2,	138.1,	-106.5,	87.6,	36	11.0,	249.9,	117.9,	-102.4,	81.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

376999.0, 377086.3, 377173.6, 377260.9, 377348.2, 377435.5, 377522.8, 377610.1, 377697.4, 377784.7,
377872.0, 377959.3, 378046.6, 378133.9, 378221.2, 378308.5, 378395.8, 378483.1, 378570.4, 378657.7,
378745.0,

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

3746986.6, 3747043.0, 3747099.4, 3747155.8, 3747212.2, 3747268.5, 3747324.9, 3747381.3, 3747437.7, 3747494.1,
3747550.4, 3747606.8, 3747663.2, 3747719.6, 3747776.0, 3747832.3, 3747888.7, 3747945.1, 3748001.5, 3748057.9,
3748114.2,

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	376998.97	377086.27	377173.57	377260.87	377348.17	377435.47	377522.77	377610.07	377697.37
3748114.24	18.30	18.50	19.10	19.90	20.30	20.10	19.80	19.60	19.40
3748057.86	25.50	18.60	18.90	19.10	19.50	19.60	19.70	19.70	19.60
3748001.48	19.20	25.90	25.00	19.80	20.00	20.80	20.10	19.90	20.10
3747945.10	18.10	19.60	25.20	26.60	23.40	22.60	20.00	20.10	20.10
3747888.72	18.30	18.60	21.80	20.80	23.70	25.60	21.70	19.80	19.80
3747832.34	18.40	18.70	20.00	20.80	20.80	20.60	23.60	23.50	19.90
3747775.96	18.40	18.70	19.50	21.00	20.70	19.90	19.90	19.80	22.80
3747719.58	18.60	19.10	19.80	20.70	20.80	20.50	20.30	19.90	19.20
3747663.20	18.50	18.80	19.20	20.20	20.50	20.70	19.80	19.70	19.20
3747606.82	18.50	18.70	19.10	19.40	20.00	20.40	19.70	19.60	19.30
3747550.44	18.40	18.50	18.60	18.50	19.80	20.20	19.70	19.70	19.60
3747494.06	18.40	18.40	18.30	18.20	19.90	20.20	19.60	19.80	19.80
3747437.68	18.70	18.60	18.40	18.50	19.20	19.90	19.90	20.00	19.80
3747381.30	18.90	18.50	18.20	18.60	19.00	19.60	20.40	20.20	19.60
3747324.92	19.30	18.60	18.00	18.30	18.90	19.30	20.40	19.70	19.60
3747268.54	18.90	18.50	18.00	17.80	18.50	19.30	19.60	19.50	19.20
3747212.16	19.20	19.10	18.40	18.20	19.50	20.00	20.00	19.20	18.50
3747155.78	19.50	19.50	19.60	19.70	22.00	21.80	21.10	21.90	19.80
3747099.40	18.90	18.80	19.90	20.20	21.90	21.80	21.40	21.90	21.30
3747043.02	18.60	18.40	20.30	20.10	20.70	20.70	20.90	20.80	21.30
3746986.64	19.40	18.30	20.10	19.90	13.80	13.50	20.90	20.60	20.70

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	19.20	19.10	18.90	18.80	18.70	18.70	18.20	17.60	17.60
3748057.86	19.60	19.50	19.40	19.20	18.90	18.60	18.30	18.00	17.80
3748001.48	19.90	19.50	19.50	19.80	19.20	18.80	18.70	18.30	18.00
3747945.10	19.60	19.20	19.40	20.10	19.10	19.00	18.90	18.50	18.10
3747888.72	19.20	19.10	19.20	20.10	19.60	19.40	19.00	18.60	18.30
3747832.34	19.10	19.00	19.60	19.90	19.90	19.30	19.30	19.20	18.90
3747775.96	22.70	19.10	19.40	19.60	20.10	19.50	19.20	18.80	18.60
3747719.58	19.90	24.00	23.10	20.00	20.10	19.50	19.30	19.00	18.60
3747663.20	19.10	19.40	22.60	25.80	21.30	19.40	19.20	18.80	18.50
3747606.82	19.60	19.30	19.50	20.30	23.70	25.00	19.90	18.80	18.80
3747550.44	19.70	19.30	19.20	19.50	19.90	19.90	24.50	22.10	18.80
3747494.06	19.50	19.30	19.10	19.50	20.00	19.20	20.00	20.60	22.40
3747437.68	19.50	18.90	18.60	19.30	19.90	20.00	20.10	20.00	20.10
3747381.30	19.40	19.00	18.80	19.10	20.10	20.10	20.10	19.70	19.90
3747324.92	19.40	19.30	19.50	19.70	20.00	20.10	19.90	19.60	19.70
3747268.54	19.10	18.90	19.60	19.70	20.00	20.10	19.80	19.40	19.60
3747212.16	18.10	18.70	19.30	19.70	20.20	20.10	19.80	19.50	19.10
3747155.78	17.40	22.30	22.60	23.40	20.30	20.40	20.40	20.90	20.10
3747099.40	17.60	20.00	20.30	23.20	20.10	20.50	20.60	20.10	20.00
3747043.02	17.70	17.40	18.60	23.30	19.60	20.00	19.80	20.30	20.40
3746986.64	17.60	16.20	19.00	22.70	19.60	19.70	20.00	19.90	20.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	16.40	16.00	16.70
3748057.86	17.10	17.30	17.10
3748001.48	17.70	17.20	17.20
3747945.10	17.60	17.40	17.40
3747888.72	18.10	17.40	17.50
3747832.34	17.90	17.50	17.40
3747775.96	17.90	17.60	17.30
3747719.58	18.00	17.70	17.50

3747663.20	18.10	17.70	17.80
3747606.82	18.20	17.80	17.90
3747550.44	18.20	18.00	17.90
3747494.06	19.90	18.50	18.30
3747437.68	21.40	22.40	20.70
3747381.30	20.10	21.00	22.10
3747324.92	19.80	19.20	18.50
3747268.54	19.20	19.00	18.70
3747212.16	18.80	18.60	18.40
3747155.78	19.20	19.40	19.10
3747099.40	18.90	19.30	19.00
3747043.02	19.20	19.20	18.60
3746986.64	20.00	20.00	18.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 376998.97	377086.27	377173.57	377260.87	377348.17	377435.47	377522.77	377610.07	377697.37
3748114.24	25.50	18.50	19.10	19.90	20.30	20.10	19.80	19.60	19.40
3748057.86	25.50	26.00	26.20	19.10	19.50	19.60	19.70	19.70	19.60
3748001.48	25.70	25.90	26.20	26.60	20.00	20.80	20.10	19.90	20.10
3747945.10	25.50	26.20	25.20	26.60	26.50	22.60	20.00	20.10	20.10
3747888.72	18.30	24.40	21.80	26.60	26.50	25.60	24.80	19.80	19.80
3747832.34	18.40	18.70	20.00	20.80	20.80	25.50	23.60	23.50	19.90
3747775.96	18.40	18.70	19.50	21.00	20.70	19.90	19.90	23.50	22.80
3747719.58	18.60	19.10	19.80	20.70	20.80	20.50	20.30	19.90	19.20
3747663.20	18.50	18.80	19.20	20.20	20.50	20.70	19.80	19.70	19.20
3747606.82	18.50	18.70	19.10	19.40	20.00	20.40	19.70	19.60	19.30
3747550.44	18.40	18.50	18.60	18.50	19.80	20.20	19.70	19.70	19.60
3747494.06	18.40	18.40	18.30	18.20	19.90	20.20	19.60	19.80	19.80
3747437.68	18.70	18.60	18.40	18.50	19.20	19.90	19.90	20.00	19.80
3747381.30	18.90	18.50	18.20	18.60	19.00	19.60	20.40	20.20	19.60
3747324.92	19.30	18.60	18.00	18.30	18.90	19.30	20.40	19.70	19.60
3747268.54	18.90	18.50	18.00	17.80	18.50	19.30	19.60	19.50	19.20
3747212.16	19.20	19.10	18.40	18.20	19.50	20.00	20.00	19.20	18.50
3747155.78	19.50	19.50	19.60	19.70	22.00	21.80	21.10	21.90	19.80
3747099.40	18.90	18.80	19.90	20.20	21.90	21.80	21.40	21.90	21.30
3747043.02	18.60	18.40	20.30	20.10	20.70	20.70	20.90	20.80	21.30
3746986.64	19.40	18.30	20.10	19.90	20.60	21.70	20.90	20.60	20.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	19.20	19.10	18.90	18.80	18.70	18.70	18.20	17.60	17.60
3748057.86	19.60	19.50	19.40	19.20	18.90	18.60	18.30	18.00	17.80
3748001.48	19.90	19.50	19.50	19.80	19.20	18.80	18.70	18.30	18.00
3747945.10	19.60	19.20	19.40	20.10	19.10	19.00	18.90	18.50	18.10
3747888.72	19.20	19.10	19.20	20.10	19.60	19.40	19.00	18.60	18.30
3747832.34	19.10	19.00	19.60	19.90	19.90	19.30	19.30	19.20	18.90
3747775.96	23.10	24.00	19.40	19.60	20.10	19.50	19.20	18.80	18.60
3747719.58	23.40	24.00	24.90	26.00	20.10	19.50	19.30	19.00	18.60
3747663.20	19.10	24.50	25.30	25.80	24.70	25.90	19.20	18.80	18.50
3747606.82	19.60	19.30	19.50	26.20	26.20	25.00	25.10	18.80	18.80
3747550.44	19.70	19.30	19.20	19.50	25.50	25.80	24.50	22.10	22.20
3747494.06	19.50	19.30	19.10	19.50	20.00	19.20	20.00	23.90	22.40
3747437.68	19.50	18.90	18.60	19.30	19.90	20.00	20.10	20.00	20.10
3747381.30	19.40	19.00	18.80	19.10	20.10	20.10	20.10	19.70	19.90
3747324.92	19.40	19.30	19.50	19.70	20.00	20.10	19.90	19.60	19.70
3747268.54	19.10	18.90	19.60	19.70	20.00	20.10	19.80	19.40	19.60
3747212.16	18.10	24.50	19.30	22.80	20.20	20.10	19.80	19.50	19.10
3747155.78	24.30	24.50	22.60	23.40	20.30	20.40	20.40	20.90	20.10
3747099.40	24.30	24.30	20.30	23.20	20.10	20.50	20.60	20.10	20.00
3747043.02	24.30	17.40	18.60	23.30	19.60	20.00	19.80	20.30	20.40
3746986.64	22.90	21.40	19.00	22.70	19.60	19.70	20.00	19.90	20.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	16.40	16.00	16.70
3748057.86	17.10	17.30	17.10
3748001.48	17.70	17.20	17.20
3747945.10	17.60	17.40	17.40
3747888.72	18.10	17.40	17.50

3747832.34	17.90	17.50	17.40
3747775.96	17.90	17.60	17.30
3747719.58	18.00	17.70	17.50
3747663.20	18.10	17.70	17.80
3747606.82	18.20	17.80	17.90
3747550.44	18.20	18.00	17.90
3747494.06	19.90	18.50	18.30
3747437.68	21.40	22.40	23.30
3747381.30	20.10	21.00	24.00
3747324.92	19.80	19.20	18.50
3747268.54	19.20	19.00	18.70
3747212.16	18.80	18.60	18.40
3747155.78	19.20	19.40	19.10
3747099.40	18.90	19.30	19.00
3747043.02	19.20	19.20	18.60
3746986.64	20.00	20.00	18.90

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

(377146.6, 3747291.4,	18.2,	18.2,	0.0);	(377230.5, 3747442.5,	18.1,	18.1,	0.0);
(377253.4, 3747498.1,	18.2,	18.2,	0.0);	(377259.3, 3747543.7,	18.5,	18.5,	0.0);
(377259.3, 3747621.9,	19.6,	19.6,	0.0);	(377260.6, 3747704.7,	20.6,	20.6,	0.0);
(378132.2, 3747267.4,	20.0,	20.0,	0.0);	(378294.5, 3747265.7,	19.8,	19.8,	0.0);

* 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)
L0002202	377260.9	3747437.7	-4.03

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 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\KHHR_V9_ADJU\KHHR_v9.SFC Met Version: 16216
Profile file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3167 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	283.8	2.0
12	01	01	1	02	-2.1	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	305.	7.9	283.1	2.0
12	01	01	1	03	-9.0	0.127	-9.000	-9.000	-999.	109.	20.8	0.24	2.79	1.00	1.18	323.	7.9	282.5	2.0
12	01	01	1	04	-2.2	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	296.	7.9	282.0	2.0
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	06	-6.0	0.103	-9.000	-9.000	-999.	80.	16.7	0.24	2.79	1.00	0.97	321.	7.9	281.4	2.0
12	01	01	1	07	-4.3	0.088	-9.000	-9.000	-999.	63.	14.4	0.24	2.79	1.00	0.82	313.	7.9	280.4	2.0
12	01	01	1	08	15.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	0.55	0.00	0.	7.9	281.4	2.0
12	01	01	1	09	35.7	0.115	0.353	0.013	45.	93.	-3.8	0.24	2.79	0.32	0.63	179.	7.9	285.4	2.0
12	01	01	1	10	109.0	0.141	0.727	0.009	128.	127.	-2.3	0.24	2.79	0.24	0.70	170.	7.9	289.2	2.0
12	01	01	1	11	164.4	0.149	1.186	0.005	370.	138.	-1.8	0.24	2.79	0.21	0.70	222.	7.9	297.0	2.0
12	01	01	1	12	191.7	0.163	1.525	0.005	672.	158.	-2.1	0.24	2.79	0.20	0.79	12.	7.9	299.9	2.0

```
12 01 01   1 13  191.3  0.170  1.819  0.005 1144.  168.     -2.3  0.24   2.79   0.20    0.84  260.    7.9  300.9    2.0
12 01 01   1 14  161.6  0.344  1.852  0.005 1428.  483.    -22.7  0.24   2.79   0.21    2.49  260.    7.9  298.8    2.0
12 01 01   1 15  105.0  0.367  1.638  0.005 1521.  534.    -42.8  0.24   2.79   0.24    2.84  292.    7.9  293.8    2.0
12 01 01   1 16   29.7  0.383  1.079  0.005 1539.  570.   -172.5  0.24   2.79   0.33    3.22  276.    7.9  290.4    2.0
12 01 01   1 17  -24.8  0.287 -9.000 -9.000 -999.  374.     90.3  0.24   2.79   0.59    2.52  284.    7.9  289.2    2.0
12 01 01   1 18  -26.7  0.269 -9.000 -9.000 -999.  336.     79.8  0.24   2.79   1.00    2.38  285.    7.9  287.5    2.0
12 01 01   1 19  -10.2  0.137 -9.000 -9.000 -999.  133.     22.7  0.24   2.79   1.00    1.26  287.    7.9  287.5    2.0
12 01 01   1 20   -6.2  0.106 -9.000 -9.000 -999.   83.     17.2  0.24   2.79   1.00    0.99  303.    7.9  287.0    2.0
12 01 01   1 21   -7.6  0.117 -9.000 -9.000 -999.   96.     19.1  0.24   2.79   1.00    1.09  326.    7.9  286.4    2.0
12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00   283.8   99.0  -99.00  -99.00

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

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2YR                                          ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2025-2026                                    ***        07:53:26
                                                                                                               PAGE  31
*** 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       , STCK5       ,
               STCK6       , L0002136    , L0002137    , L0002138    , L0002139    , L0002140    , L0002141    , L0002142    ,
               L0002143    , L0002144    , L0002145    , L0002146    , L0002147    , L0002148    , L0002149    , L0002150    ,
               L0002151    , L0002152    , L0002153    , L0002154    , L0002155    , L0002156    , L0002157    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |    376998.97    377086.27    377173.57    377260.87    377348.17    377435.47    377522.77    377610.07    377697.37
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00011      0.00012      0.00013      0.00014      0.00015      0.00015      0.00015      0.00014      0.00014
 3748057.86 |       0.00011      0.00014      0.00015      0.00016      0.00017      0.00017      0.00017      0.00017      0.00016
 3748001.48 |       0.00014      0.00013      0.00015      0.00019      0.00020      0.00020      0.00020      0.00019      0.00018
 3747945.10 |       0.00016      0.00019      0.00018      0.00019      0.00022      0.00022      0.00024      0.00023      0.00022
 3747888.72 |       0.00018      0.00022      0.00024      0.00029      0.00027      0.00024      0.00027      0.00027      0.00026
 3747832.34 |       0.00021      0.00025      0.00031      0.00044      0.00042      0.00036      0.00031      0.00030      0.00031
 3747775.96 |       0.00024      0.00029      0.00037      0.00059      0.00055      0.00046      0.00043      0.00040      0.00035
 3747719.58 |       0.00027      0.00034      0.00044      0.00069      0.00067      0.00056      0.00053      0.00050      0.00046
 3747663.20 |       0.00030      0.00039      0.00052      0.00081      0.00082      0.00071      0.00068      0.00064      0.00059
 3747606.82 |       0.00033      0.00044      0.00061      0.00096      0.00104      0.00096      0.00091      0.00085      0.00078
 3747550.44 |       0.00037      0.00050      0.00071      0.00116      0.00138      0.00142      0.00133      0.00120      0.00105
 3747494.06 |       0.00040      0.00056      0.00082      0.00150      0.00213      0.00222      0.00217      0.00185      0.00138
```

3747437.68	0.00043	0.00060	0.00092	0.00205	0.00377	0.00478	0.00478	0.00346	0.00159
3747381.30	0.00046	0.00063	0.00096	0.00202	0.00237	0.00385	0.00386	0.00304	0.00164
3747324.92	0.00051	0.00068	0.00098	0.00194	0.00194	0.00264	0.00235	0.00212	0.00148
3747268.54	0.00071	0.00086	0.00112	0.00175	0.00222	0.00226	0.00222	0.00210	0.00154
3747212.16	0.00062	0.00076	0.00096	0.00128	0.00181	0.00199	0.00196	0.00151	0.00123
3747155.78	0.00044	0.00055	0.00070	0.00090	0.00111	0.00132	0.00129	0.00104	0.00085
3747099.40	0.00037	0.00046	0.00057	0.00071	0.00086	0.00100	0.00100	0.00084	0.00069
3747043.02	0.00031	0.00039	0.00048	0.00059	0.00071	0.00082	0.00081	0.00071	0.00058
3746986.64	0.00027	0.00033	0.00040	0.00049	0.00057	0.00065	0.00067	0.00060	0.00050

*** 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 , STCK5 ,
STCK6 , L0002136 , L0002137 , L0002138 , L0002139 , L0002140 , L0002141 , L0002142 ,
L0002143 , L0002144 , L0002145 , L0002146 , L0002147 , L0002148 , L0002149 , L0002150 ,
L0002151 , L0002152 , L0002153 , L0002154 , L0002155 , L0002156 , L0002157 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	0.00013	0.00012	0.00011	0.00011	0.00010	0.00009	0.00009	0.00008	0.00008
3748057.86	0.00015	0.00014	0.00013	0.00012	0.00011	0.00010	0.00010	0.00009	0.00008
3748001.48	0.00017	0.00016	0.00015	0.00013	0.00012	0.00011	0.00010	0.00010	0.00009
3747945.10	0.00020	0.00018	0.00017	0.00015	0.00014	0.00013	0.00011	0.00011	0.00010
3747888.72	0.00024	0.00021	0.00019	0.00017	0.00016	0.00014	0.00013	0.00011	0.00010
3747832.34	0.00028	0.00025	0.00023	0.00020	0.00018	0.00016	0.00014	0.00013	0.00011
3747775.96	0.00033	0.00031	0.00027	0.00023	0.00020	0.00018	0.00015	0.00014	0.00012
3747719.58	0.00042	0.00036	0.00032	0.00027	0.00023	0.00020	0.00017	0.00015	0.00013
3747663.20	0.00053	0.00046	0.00038	0.00033	0.00026	0.00021	0.00018	0.00016	0.00014
3747606.82	0.00068	0.00056	0.00045	0.00035	0.00029	0.00025	0.00020	0.00017	0.00015
3747550.44	0.00085	0.00065	0.00050	0.00038	0.00031	0.00025	0.00023	0.00019	0.00016
3747494.06	0.00098	0.00071	0.00053	0.00041	0.00033	0.00027	0.00023	0.00021	0.00019
3747437.68	0.00105	0.00076	0.00057	0.00045	0.00036	0.00030	0.00026	0.00023	0.00021
3747381.30	0.00111	0.00081	0.00063	0.00050	0.00041	0.00035	0.00030	0.00027	0.00025
3747324.92	0.00114	0.00090	0.00072	0.00059	0.00050	0.00044	0.00040	0.00036	0.00034
3747268.54	0.00135	0.00121	0.00108	0.00097	0.00089	0.00083	0.00079	0.00076	0.00073
3747212.16	0.00107	0.00097	0.00087	0.00079	0.00073	0.00067	0.00063	0.00061	0.00058
3747155.78	0.00069	0.00059	0.00052	0.00046	0.00041	0.00037	0.00034	0.00031	0.00029
3747099.40	0.00056	0.00047	0.00040	0.00035	0.00031	0.00027	0.00025	0.00023	0.00021
3747043.02	0.00048	0.00039	0.00033	0.00028	0.00025	0.00022	0.00020	0.00018	0.00017
3746986.64	0.00041	0.00033	0.00028	0.00024	0.00021	0.00019	0.00017	0.00015	0.00014

*** 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 , STCK5 ,
STCK6 , L0002136 , L0002137 , L0002138 , L0002139 , L0002140 , L0002141 , L0002142 ,
L0002143 , L0002144 , L0002145 , L0002146 , L0002147 , L0002148 , L0002149 , L0002150 ,
L0002151 , L0002152 , L0002153 , L0002154 , L0002155 , L0002156 , L0002157 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 378570.37	378657.67	378744.97
3748114.24	0.00007	0.00007	0.00006
3748057.86	0.00008	0.00007	0.00007
3748001.48	0.00008	0.00008	0.00007
3747945.10	0.00009	0.00008	0.00008
3747888.72	0.00010	0.00009	0.00008
3747832.34	0.00010	0.00009	0.00009
3747775.96	0.00011	0.00010	0.00009
3747719.58	0.00012	0.00011	0.00010
3747663.20	0.00013	0.00011	0.00010
3747606.82	0.00013	0.00012	0.00011
3747550.44	0.00015	0.00013	0.00012
3747494.06	0.00016	0.00014	0.00013
3747437.68	0.00019	0.00017	0.00014
3747381.30	0.00023	0.00020	0.00017
3747324.92	0.00032	0.00029	0.00024
3747268.54	0.00071	0.00068	0.00057
3747212.16	0.00056	0.00053	0.00043
3747155.78	0.00027	0.00024	0.00020
3747099.40	0.00019	0.00017	0.00014
3747043.02	0.00015	0.00014	0.00012
3746986.64	0.00013	0.00012	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 , STCK5 ,
STCK6 , L0002136 , L0002137 , L0002138 , L0002139 , L0002140 , L0002141 , L0002142 ,
L0002143 , L0002144 , L0002145 , L0002146 , L0002147 , L0002148 , L0002149 , L0002150 ,
L0002151 , L0002152 , L0002153 , L0002154 , L0002155 , L0002156 , L0002157 , . . . ,

*** 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
377146.65	3747291.37	0.00091	377230.47	3747442.55	0.00138
377253.39	3747498.09	0.00136	377259.26	3747543.71	0.00117
377259.26	3747621.90	0.00090	377260.56	3747704.66	0.00072
378132.19	3747267.37	0.00091	378294.52	3747265.66	0.00085

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

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00478 AT (377435.47, 3747437.68, 19.90, 19.90, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00478 AT (377522.77, 3747437.68, 19.90, 19.90, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00386 AT (377522.77, 3747381.30, 20.40, 20.40, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00385 AT (377435.47, 3747381.30, 19.60, 19.60, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00377 AT (377348.17, 3747437.68, 19.20, 19.20, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00346 AT (377610.07, 3747437.68, 20.00, 20.00, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00304 AT (377610.07, 3747381.30, 20.20, 20.20, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00264 AT (377435.47, 3747324.92, 19.30, 19.30, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00237 AT (377348.17, 3747381.30, 19.00, 19.00, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00235 AT (377522.77, 3747324.92, 20.40, 20.40, 0.00)	GC	UCART1

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

*** Message Summary : AERMOD Model Execution ***

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

```
A Total of            0 Fatal Error Message(s)
A Total of            8 Warning Message(s)
A Total of         1474 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     480        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     481        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     482        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     483        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     484        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     485        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1075       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1075       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 8/29/2022
** File: C:\Lakes\AERMOD View\190th St Warehouse 2022 1st 14YR\190th St Warehouse 2022 1st 14YR.ADI
**
**************************************
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**
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** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 190th St Warehouse 1st 14 YR
   TITLETWO DPM concentrations 2027-2040
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County_Population
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "190th St Warehouse 2022 1st 14YR.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      377355.844  3747399.960       19.110
** DESCRSRC Idling location
   LOCATION STCK2        POINT      377401.539  3747400.698       19.440
** DESCRSRC Idling location
   LOCATION STCK3        POINT      377441.836  3747400.553       19.670
** DESCRSRC Idling location
   LOCATION STCK4        POINT      377471.534  3747400.553       19.860
** DESCRSRC Idling location
   LOCATION STCK5        POINT      377501.780  3747401.729       20.220
** DESCRSRC Idling location
   LOCATION STCK6        POINT      377533.617  3747400.407       20.860
** DESCRSRC Idling location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
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** LINE VOLUME Source ID = SLINE1
** DESCRSRC Crenshaw Place n/o 190th St to Project Driveway 4
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.79E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 3
** 377297.362, 3747254.685, 17.80, 3.50, 4.00
** 377295.861, 3747414.324, 18.62, 3.50, 4.00
** 377304.563, 3747418.225, 18.78, 3.50, 4.00
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   LOCATION L0002479     VOLUME   377297.321 3747258.980 17.88
   LOCATION L0002480     VOLUME   377297.240 3747267.571 17.94
   LOCATION L0002481     VOLUME   377297.160 3747276.161 17.99
   LOCATION L0002482     VOLUME   377297.079 3747284.751 18.05
   LOCATION L0002483     VOLUME   377296.998 3747293.342 18.12
   LOCATION L0002484     VOLUME   377296.918 3747301.932 18.19
   LOCATION L0002485     VOLUME   377296.837 3747310.523 18.26
   LOCATION L0002486     VOLUME   377296.756 3747319.113 18.32
   LOCATION L0002487     VOLUME   377296.675 3747327.703 18.35
   LOCATION L0002488     VOLUME   377296.595 3747336.294 18.37
   LOCATION L0002489     VOLUME   377296.514 3747344.884 18.40
   LOCATION L0002490     VOLUME   377296.433 3747353.475 18.41
   LOCATION L0002491     VOLUME   377296.352 3747362.065 18.43
   LOCATION L0002492     VOLUME   377296.272 3747370.656 18.45
   LOCATION L0002493     VOLUME   377296.191 3747379.246 18.46
   LOCATION L0002494     VOLUME   377296.110 3747387.836 18.51
   LOCATION L0002495     VOLUME   377296.029 3747396.427 18.55
   LOCATION L0002496     VOLUME   377295.949 3747405.017 18.60
   LOCATION L0002497     VOLUME   377295.868 3747413.608 18.69
   LOCATION L0002498     VOLUME   377303.046 3747417.545 18.82
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Along Crenshaw Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.03E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 7
** 377293.151, 3747832.482, 20.50, 3.50, 4.00
** 377294.893, 3747556.492, 19.22, 3.50, 4.00
** 377291.989, 3747510.878, 19.17, 3.50, 4.00
** 377280.190, 3747469.395, 18.61, 3.50, 4.00
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** 377269.273, 3747444.981, 18.73, 3.50, 4.00
** 377264.724, 3747436.843, 18.71, 3.50, 4.00
** 377284.436, 3747421.471, 18.61, 3.50, 4.00
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   LOCATION L0002499     VOLUME   377293.178 3747828.187 20.54
   LOCATION L0002500     VOLUME   377293.232 3747819.596 20.58
   LOCATION L0002501     VOLUME   377293.286 3747811.006 20.62
   LOCATION L0002502     VOLUME   377293.340 3747802.415 20.65
   LOCATION L0002503     VOLUME   377293.395 3747793.824 20.69
   LOCATION L0002504     VOLUME   377293.449 3747785.234 20.73
   LOCATION L0002505     VOLUME   377293.503 3747776.643 20.74
   LOCATION L0002506     VOLUME   377293.557 3747768.052 20.71
   LOCATION L0002507     VOLUME   377293.612 3747759.462 20.69
   LOCATION L0002508     VOLUME   377293.666 3747750.871 20.66
   LOCATION L0002509     VOLUME   377293.720 3747742.281 20.63
   LOCATION L0002510     VOLUME   377293.774 3747733.690 20.61
   LOCATION L0002511     VOLUME   377293.829 3747725.099 20.58
   LOCATION L0002512     VOLUME   377293.883 3747716.509 20.54
   LOCATION L0002513     VOLUME   377293.937 3747707.918 20.47
   LOCATION L0002514     VOLUME   377293.991 3747699.327 20.39
   LOCATION L0002515     VOLUME   377294.046 3747690.737 20.31
   LOCATION L0002516     VOLUME   377294.100 3747682.146 20.24
   LOCATION L0002517     VOLUME   377294.154 3747673.556 20.18
   LOCATION L0002518     VOLUME   377294.208 3747664.965 20.11
   LOCATION L0002519     VOLUME   377294.263 3747656.374 20.05
   LOCATION L0002520     VOLUME   377294.317 3747647.784 19.98
   LOCATION L0002521     VOLUME   377294.371 3747639.193 19.90
   LOCATION L0002522     VOLUME   377294.425 3747630.602 19.83
   LOCATION L0002523     VOLUME   377294.480 3747622.012 19.76
   LOCATION L0002524     VOLUME   377294.534 3747613.421 19.68
   LOCATION L0002525     VOLUME   377294.588 3747604.831 19.61
   LOCATION L0002526     VOLUME   377294.642 3747596.240 19.54
   LOCATION L0002527     VOLUME   377294.697 3747587.649 19.45
   LOCATION L0002528     VOLUME   377294.751 3747579.059 19.37
   LOCATION L0002529     VOLUME   377294.805 3747570.468 19.29
   LOCATION L0002530     VOLUME   377294.859 3747561.877 19.21
   LOCATION L0002531     VOLUME   377294.690 3747553.293 19.18
   LOCATION L0002532     VOLUME   377294.144 3747544.720 19.14
   LOCATION L0002533     VOLUME   377293.598 3747536.146 19.10
   LOCATION L0002534     VOLUME   377293.052 3747527.573 19.08
   LOCATION L0002535     VOLUME   377292.506 3747518.999 19.09
   LOCATION L0002536     VOLUME   377291.865 3747510.442 19.09
   LOCATION L0002537     VOLUME   377289.515 3747502.179 18.99
   LOCATION L0002538     VOLUME   377287.164 3747493.916 18.86
   LOCATION L0002539     VOLUME   377284.814 3747485.653 18.75
   LOCATION L0002540     VOLUME   377282.464 3747477.390 18.68
   LOCATION L0002541     VOLUME   377280.076 3747469.141 18.66
   LOCATION L0002542     VOLUME   377276.569 3747461.298 18.67
   LOCATION L0002543     VOLUME   377273.062 3747453.456 18.68
   LOCATION L0002544     VOLUME   377269.555 3747445.613 18.71
   LOCATION L0002545     VOLUME   377265.419 3747438.087 18.66
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   LOCATION L0002546     VOLUME   377270.374 3747432.437 18.74
   LOCATION L0002547     VOLUME   377277.149 3747427.154 18.76
   LOCATION L0002548     VOLUME   377283.923 3747421.871 18.75
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC 190th St w/o Crenshaw Pl
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.32E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 2
** 377295.985, 3747243.230, 17.83, 3.50, 4.00
** 376669.444, 3747243.719, 20.20, 3.50, 4.00
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   LOCATION L0002549     VOLUME   377291.689 3747243.233 17.83
   LOCATION L0002550     VOLUME   377283.098 3747243.240 17.80
   LOCATION L0002551     VOLUME   377274.508 3747243.247 17.79
   LOCATION L0002552     VOLUME   377265.917 3747243.253 17.77
   LOCATION L0002553     VOLUME   377257.326 3747243.260 17.73
   LOCATION L0002554     VOLUME   377248.735 3747243.267 17.70
   LOCATION L0002555     VOLUME   377240.145 3747243.274 17.66
   LOCATION L0002556     VOLUME   377231.554 3747243.280 17.76
   LOCATION L0002557     VOLUME   377222.963 3747243.287 17.87
   LOCATION L0002558     VOLUME   377214.372 3747243.294 17.98
   LOCATION L0002559     VOLUME   377205.781 3747243.300 17.98
   LOCATION L0002560     VOLUME   377197.191 3747243.307 17.97
   LOCATION L0002561     VOLUME   377188.600 3747243.314 17.95
   LOCATION L0002562     VOLUME   377180.009 3747243.320 18.00
   LOCATION L0002563     VOLUME   377171.418 3747243.327 18.04
   LOCATION L0002564     VOLUME   377162.827 3747243.334 18.08
   LOCATION L0002565     VOLUME   377154.237 3747243.341 18.18
   LOCATION L0002566     VOLUME   377145.646 3747243.347 18.29
   LOCATION L0002567     VOLUME   377137.055 3747243.354 18.39
   LOCATION L0002568     VOLUME   377128.464 3747243.361 18.39
   LOCATION L0002569     VOLUME   377119.873 3747243.367 18.40
   LOCATION L0002570     VOLUME   377111.283 3747243.374 18.40
   LOCATION L0002571     VOLUME   377102.692 3747243.381 18.43
   LOCATION L0002572     VOLUME   377094.101 3747243.387 18.46
   LOCATION L0002573     VOLUME   377085.510 3747243.394 18.49
   LOCATION L0002574     VOLUME   377076.919 3747243.401 18.53
   LOCATION L0002575     VOLUME   377068.329 3747243.408 18.58
   LOCATION L0002576     VOLUME   377059.738 3747243.414 18.62
   LOCATION L0002577     VOLUME   377051.147 3747243.421 18.66
   LOCATION L0002578     VOLUME   377042.556 3747243.428 18.70
   LOCATION L0002579     VOLUME   377033.965 3747243.434 18.74
   LOCATION L0002580     VOLUME   377025.375 3747243.441 18.80
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   LOCATION L0002581     VOLUME   377016.784 3747243.448 18.87
   LOCATION L0002582     VOLUME   377008.193 3747243.455 18.93
   LOCATION L0002583     VOLUME   376999.602 3747243.461 18.87
   LOCATION L0002584     VOLUME   376991.011 3747243.468 18.81
   LOCATION L0002585     VOLUME   376982.421 3747243.475 18.75
   LOCATION L0002586     VOLUME   376973.830 3747243.481 18.86
   LOCATION L0002587     VOLUME   376965.239 3747243.488 18.97
   LOCATION L0002588     VOLUME   376956.648 3747243.495 19.08
   LOCATION L0002589     VOLUME   376948.057 3747243.501 19.08
   LOCATION L0002590     VOLUME   376939.467 3747243.508 19.07
   LOCATION L0002591     VOLUME   376930.876 3747243.515 19.07
   LOCATION L0002592     VOLUME   376922.285 3747243.522 19.10
   LOCATION L0002593     VOLUME   376913.694 3747243.528 19.13
   LOCATION L0002594     VOLUME   376905.103 3747243.535 19.16
   LOCATION L0002595     VOLUME   376896.513 3747243.542 19.22
   LOCATION L0002596     VOLUME   376887.922 3747243.548 19.29
   LOCATION L0002597     VOLUME   376879.331 3747243.555 19.35
   LOCATION L0002598     VOLUME   376870.740 3747243.562 19.35
   LOCATION L0002599     VOLUME   376862.149 3747243.568 19.36
   LOCATION L0002600     VOLUME   376853.559 3747243.575 19.37
   LOCATION L0002601     VOLUME   376844.968 3747243.582 19.38
   LOCATION L0002602     VOLUME   376836.377 3747243.589 19.40
   LOCATION L0002603     VOLUME   376827.786 3747243.595 19.41
   LOCATION L0002604     VOLUME   376819.195 3747243.602 19.45
   LOCATION L0002605     VOLUME   376810.605 3747243.609 19.48
   LOCATION L0002606     VOLUME   376802.014 3747243.615 19.51
   LOCATION L0002607     VOLUME   376793.423 3747243.622 19.50
   LOCATION L0002608     VOLUME   376784.832 3747243.629 19.49
   LOCATION L0002609     VOLUME   376776.241 3747243.635 19.48
   LOCATION L0002610     VOLUME   376767.651 3747243.642 19.55
   LOCATION L0002611     VOLUME   376759.060 3747243.649 19.62
   LOCATION L0002612     VOLUME   376750.469 3747243.656 19.68
   LOCATION L0002613     VOLUME   376741.878 3747243.662 19.70
   LOCATION L0002614     VOLUME   376733.287 3747243.669 19.71
   LOCATION L0002615     VOLUME   376724.697 3747243.676 19.73
   LOCATION L0002616     VOLUME   376716.106 3747243.682 19.79
   LOCATION L0002617     VOLUME   376707.515 3747243.689 19.85
   LOCATION L0002618     VOLUME   376698.924 3747243.696 19.92
   LOCATION L0002619     VOLUME   376690.333 3747243.702 19.98
   LOCATION L0002620     VOLUME   376681.743 3747243.709 20.04
   LOCATION L0002621     VOLUME   376673.152 3747243.716 20.11
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC 190th St East of Crenshaw Pl
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0000102
** Elevated
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** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 2
** 377296.267, 3747243.318, 17.84, 3.50, 4.00
** 378776.369, 3747244.103, 17.97, 3.50, 4.00
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   LOCATION L0002622     VOLUME   377300.562 3747243.320 17.93
   LOCATION L0002623     VOLUME   377309.153 3747243.324 18.04
   LOCATION L0002624     VOLUME   377317.744 3747243.329 18.14
   LOCATION L0002625     VOLUME   377326.334 3747243.334 18.24
   LOCATION L0002626     VOLUME   377334.925 3747243.338 18.34
   LOCATION L0002627     VOLUME   377343.516 3747243.343 18.43
   LOCATION L0002628     VOLUME   377352.107 3747243.347 18.53
   LOCATION L0002629     VOLUME   377360.698 3747243.352 18.62
   LOCATION L0002630     VOLUME   377369.288 3747243.356 18.71
   LOCATION L0002631     VOLUME   377377.879 3747243.361 18.77
   LOCATION L0002632     VOLUME   377386.470 3747243.366 18.82
   LOCATION L0002633     VOLUME   377395.061 3747243.370 18.89
   LOCATION L0002634     VOLUME   377403.652 3747243.375 19.03
   LOCATION L0002635     VOLUME   377412.242 3747243.379 19.17
   LOCATION L0002636     VOLUME   377420.833 3747243.384 19.30
   LOCATION L0002637     VOLUME   377429.424 3747243.388 19.39
   LOCATION L0002638     VOLUME   377438.015 3747243.393 19.48
   LOCATION L0002639     VOLUME   377446.606 3747243.397 19.57
   LOCATION L0002640     VOLUME   377455.196 3747243.402 19.66
   LOCATION L0002641     VOLUME   377463.787 3747243.407 19.74
   LOCATION L0002642     VOLUME   377472.378 3747243.411 19.80
   LOCATION L0002643     VOLUME   377480.969 3747243.416 19.79
   LOCATION L0002644     VOLUME   377489.560 3747243.420 19.78
   LOCATION L0002645     VOLUME   377498.150 3747243.425 19.76
   LOCATION L0002646     VOLUME   377506.741 3747243.429 19.71
   LOCATION L0002647     VOLUME   377515.332 3747243.434 19.66
   LOCATION L0002648     VOLUME   377523.923 3747243.438 19.62
   LOCATION L0002649     VOLUME   377532.514 3747243.443 19.58
   LOCATION L0002650     VOLUME   377541.104 3747243.448 19.54
   LOCATION L0002651     VOLUME   377549.695 3747243.452 19.51
   LOCATION L0002652     VOLUME   377558.286 3747243.457 19.49
   LOCATION L0002653     VOLUME   377566.877 3747243.461 19.46
   LOCATION L0002654     VOLUME   377575.468 3747243.466 19.42
   LOCATION L0002655     VOLUME   377584.058 3747243.470 19.35
   LOCATION L0002656     VOLUME   377592.649 3747243.475 19.28
   LOCATION L0002657     VOLUME   377601.240 3747243.480 19.22
   LOCATION L0002658     VOLUME   377609.831 3747243.484 19.19
   LOCATION L0002659     VOLUME   377618.422 3747243.489 19.16
   LOCATION L0002660     VOLUME   377627.012 3747243.493 19.12
   LOCATION L0002661     VOLUME   377635.603 3747243.498 19.08
   LOCATION L0002662     VOLUME   377644.194 3747243.502 19.03
   LOCATION L0002663     VOLUME   377652.785 3747243.507 18.98
   LOCATION L0002664     VOLUME   377661.376 3747243.511 18.92
   LOCATION L0002665     VOLUME   377669.966 3747243.516 18.86
   LOCATION L0002666     VOLUME   377678.557 3747243.521 18.80
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LOCATION L0002667     VOLUME   377687.148 3747243.525 18.77
LOCATION L0002668     VOLUME   377695.739 3747243.530 18.74
LOCATION L0002669     VOLUME   377704.330 3747243.534 18.70
LOCATION L0002670     VOLUME   377712.920 3747243.539 18.64
LOCATION L0002671     VOLUME   377721.511 3747243.543 18.58
LOCATION L0002672     VOLUME   377730.102 3747243.548 18.52
LOCATION L0002673     VOLUME   377738.693 3747243.552 18.47
LOCATION L0002674     VOLUME   377747.284 3747243.557 18.42
LOCATION L0002675     VOLUME   377755.874 3747243.562 18.36
LOCATION L0002676     VOLUME   377764.465 3747243.566 18.30
LOCATION L0002677     VOLUME   377773.056 3747243.571 18.23
LOCATION L0002678     VOLUME   377781.647 3747243.575 18.18
LOCATION L0002679     VOLUME   377790.238 3747243.580 18.19
LOCATION L0002680     VOLUME   377798.828 3747243.584 18.20
LOCATION L0002681     VOLUME   377807.419 3747243.589 18.22
LOCATION L0002682     VOLUME   377816.010 3747243.593 18.23
LOCATION L0002683     VOLUME   377824.601 3747243.598 18.25
LOCATION L0002684     VOLUME   377833.192 3747243.603 18.26
LOCATION L0002685     VOLUME   377841.782 3747243.607 18.26
LOCATION L0002686     VOLUME   377850.373 3747243.612 18.26
LOCATION L0002687     VOLUME   377858.964 3747243.616 18.28
LOCATION L0002688     VOLUME   377867.555 3747243.621 18.34
LOCATION L0002689     VOLUME   377876.146 3747243.625 18.39
LOCATION L0002690     VOLUME   377884.736 3747243.630 18.45
LOCATION L0002691     VOLUME   377893.327 3747243.635 18.51
LOCATION L0002692     VOLUME   377901.918 3747243.639 18.57
LOCATION L0002693     VOLUME   377910.509 3747243.644 18.63
LOCATION L0002694     VOLUME   377919.100 3747243.648 18.68
LOCATION L0002695     VOLUME   377927.690 3747243.653 18.74
LOCATION L0002696     VOLUME   377936.281 3747243.657 18.82
LOCATION L0002697     VOLUME   377944.872 3747243.662 18.94
LOCATION L0002698     VOLUME   377953.463 3747243.666 19.07
LOCATION L0002699     VOLUME   377962.054 3747243.671 19.15
LOCATION L0002700     VOLUME   377970.644 3747243.676 19.14
LOCATION L0002701     VOLUME   377979.235 3747243.680 19.12
LOCATION L0002702     VOLUME   377987.826 3747243.685 19.13
LOCATION L0002703     VOLUME   377996.417 3747243.689 19.16
LOCATION L0002704     VOLUME   378005.007 3747243.694 19.20
LOCATION L0002705     VOLUME   378013.598 3747243.698 19.24
LOCATION L0002706     VOLUME   378022.189 3747243.703 19.29
LOCATION L0002707     VOLUME   378030.780 3747243.707 19.34
LOCATION L0002708     VOLUME   378039.371 3747243.712 19.41
LOCATION L0002709     VOLUME   378047.961 3747243.717 19.51
LOCATION L0002710     VOLUME   378056.552 3747243.721 19.62
LOCATION L0002711     VOLUME   378065.143 3747243.726 19.70
LOCATION L0002712     VOLUME   378073.734 3747243.730 19.71
LOCATION L0002713     VOLUME   378082.325 3747243.735 19.72
LOCATION L0002714     VOLUME   378090.915 3747243.739 19.75
LOCATION L0002715     VOLUME   378099.506 3747243.744 19.80
LOCATION L0002716     VOLUME   378108.097 3747243.749 19.86
LOCATION L0002717     VOLUME   378116.688 3747243.753 19.89
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LOCATION L0002718     VOLUME   378125.279 3747243.758 19.89
LOCATION L0002719     VOLUME   378133.869 3747243.762 19.89
LOCATION L0002720     VOLUME   378142.460 3747243.767 19.89
LOCATION L0002721     VOLUME   378151.051 3747243.771 19.89
LOCATION L0002722     VOLUME   378159.642 3747243.776 19.88
LOCATION L0002723     VOLUME   378168.233 3747243.780 19.84
LOCATION L0002724     VOLUME   378176.823 3747243.785 19.76
LOCATION L0002725     VOLUME   378185.414 3747243.790 19.68
LOCATION L0002726     VOLUME   378194.005 3747243.794 19.64
LOCATION L0002727     VOLUME   378202.596 3747243.799 19.66
LOCATION L0002728     VOLUME   378211.187 3747243.803 19.69
LOCATION L0002729     VOLUME   378219.777 3747243.808 19.70
LOCATION L0002730     VOLUME   378228.368 3747243.812 19.68
LOCATION L0002731     VOLUME   378236.959 3747243.817 19.67
LOCATION L0002732     VOLUME   378245.550 3747243.821 19.61
LOCATION L0002733     VOLUME   378254.141 3747243.826 19.50
LOCATION L0002734     VOLUME   378262.731 3747243.831 19.39
LOCATION L0002735     VOLUME   378271.322 3747243.835 19.34
LOCATION L0002736     VOLUME   378279.913 3747243.840 19.38
LOCATION L0002737     VOLUME   378288.504 3747243.844 19.42
LOCATION L0002738     VOLUME   378297.095 3747243.849 19.44
LOCATION L0002739     VOLUME   378305.685 3747243.853 19.44
LOCATION L0002740     VOLUME   378314.276 3747243.858 19.43
LOCATION L0002741     VOLUME   378322.867 3747243.862 19.40
LOCATION L0002742     VOLUME   378331.458 3747243.867 19.34
LOCATION L0002743     VOLUME   378340.049 3747243.872 19.29
LOCATION L0002744     VOLUME   378348.639 3747243.876 19.25
LOCATION L0002745     VOLUME   378357.230 3747243.881 19.24
LOCATION L0002746     VOLUME   378365.821 3747243.885 19.22
LOCATION L0002747     VOLUME   378374.412 3747243.890 19.21
LOCATION L0002748     VOLUME   378383.003 3747243.894 19.21
LOCATION L0002749     VOLUME   378391.593 3747243.899 19.20
LOCATION L0002750     VOLUME   378400.184 3747243.904 19.16
LOCATION L0002751     VOLUME   378408.775 3747243.908 19.09
LOCATION L0002752     VOLUME   378417.366 3747243.913 19.01
LOCATION L0002753     VOLUME   378425.957 3747243.917 19.01
LOCATION L0002754     VOLUME   378434.547 3747243.922 19.10
LOCATION L0002755     VOLUME   378443.138 3747243.926 19.18
LOCATION L0002756     VOLUME   378451.729 3747243.931 19.21
LOCATION L0002757     VOLUME   378460.320 3747243.935 19.20
LOCATION L0002758     VOLUME   378468.911 3747243.940 19.19
LOCATION L0002759     VOLUME   378477.501 3747243.945 19.16
LOCATION L0002760     VOLUME   378486.092 3747243.949 19.09
LOCATION L0002761     VOLUME   378494.683 3747243.954 19.02
LOCATION L0002762     VOLUME   378503.274 3747243.958 18.96
LOCATION L0002763     VOLUME   378511.865 3747243.963 18.92
LOCATION L0002764     VOLUME   378520.455 3747243.967 18.89
LOCATION L0002765     VOLUME   378529.046 3747243.972 18.85
LOCATION L0002766     VOLUME   378537.637 3747243.976 18.82
LOCATION L0002767     VOLUME   378546.228 3747243.981 18.78
LOCATION L0002768     VOLUME   378554.819 3747243.986 18.74
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   LOCATION L0002769     VOLUME   378563.409 3747243.990 18.68
   LOCATION L0002770     VOLUME   378572.000 3747243.995 18.62
   LOCATION L0002771     VOLUME   378580.591 3747243.999 18.61
   LOCATION L0002772     VOLUME   378589.182 3747244.004 18.64
   LOCATION L0002773     VOLUME   378597.773 3747244.008 18.68
   LOCATION L0002774     VOLUME   378606.363 3747244.013 18.70
   LOCATION L0002775     VOLUME   378614.954 3747244.018 18.71
   LOCATION L0002776     VOLUME   378623.545 3747244.022 18.71
   LOCATION L0002777     VOLUME   378632.136 3747244.027 18.68
   LOCATION L0002778     VOLUME   378640.727 3747244.031 18.62
   LOCATION L0002779     VOLUME   378649.317 3747244.036 18.55
   LOCATION L0002780     VOLUME   378657.908 3747244.040 18.49
   LOCATION L0002781     VOLUME   378666.499 3747244.045 18.42
   LOCATION L0002782     VOLUME   378675.090 3747244.049 18.36
   LOCATION L0002783     VOLUME   378683.681 3747244.054 18.34
   LOCATION L0002784     VOLUME   378692.271 3747244.059 18.35
   LOCATION L0002785     VOLUME   378700.862 3747244.063 18.37
   LOCATION L0002786     VOLUME   378709.453 3747244.068 18.37
   LOCATION L0002787     VOLUME   378718.044 3747244.072 18.36
   LOCATION L0002788     VOLUME   378726.635 3747244.077 18.35
   LOCATION L0002789     VOLUME   378735.225 3747244.081 18.31
   LOCATION L0002790     VOLUME   378743.816 3747244.086 18.25
   LOCATION L0002791     VOLUME   378752.407 3747244.090 18.19
   LOCATION L0002792     VOLUME   378760.998 3747244.095 18.14
   LOCATION L0002793     VOLUME   378769.589 3747244.100 18.11
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Onsite trucks
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 5.0E-06
** Elevated
** Building Height = 10.97
** SZINIT = 5.10
** Nodes = 3
** 377312.183, 3747418.955, 18.91, 3.50, 4.00
** 377322.274, 3747421.707, 18.97, 3.50, 4.00
** 377555.500, 3747423.313, 20.57, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0002794     VOLUME   377316.327 3747420.086 18.98
   LOCATION L0002795     VOLUME   377324.701 3747421.724 19.03
   LOCATION L0002796     VOLUME   377333.291 3747421.783 19.06
   LOCATION L0002797     VOLUME   377341.882 3747421.842 19.09
   LOCATION L0002798     VOLUME   377350.473 3747421.901 19.15
   LOCATION L0002799     VOLUME   377359.063 3747421.961 19.23
   LOCATION L0002800     VOLUME   377367.654 3747422.020 19.30
   LOCATION L0002801     VOLUME   377376.244 3747422.079 19.37
   LOCATION L0002802     VOLUME   377384.835 3747422.138 19.42
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   LOCATION L0002803     VOLUME   377393.426 3747422.197 19.48
   LOCATION L0002804     VOLUME   377402.016 3747422.256 19.54
   LOCATION L0002805     VOLUME   377410.607 3747422.315 19.59
   LOCATION L0002806     VOLUME   377419.197 3747422.375 19.65
   LOCATION L0002807     VOLUME   377427.788 3747422.434 19.71
   LOCATION L0002808     VOLUME   377436.379 3747422.493 19.77
   LOCATION L0002809     VOLUME   377444.969 3747422.552 19.84
   LOCATION L0002810     VOLUME   377453.560 3747422.611 19.89
   LOCATION L0002811     VOLUME   377462.150 3747422.670 19.94
   LOCATION L0002812     VOLUME   377470.741 3747422.729 19.99
   LOCATION L0002813     VOLUME   377479.331 3747422.788 20.05
   LOCATION L0002814     VOLUME   377487.922 3747422.848 20.12
   LOCATION L0002815     VOLUME   377496.513 3747422.907 20.18
   LOCATION L0002816     VOLUME   377505.103 3747422.966 20.22
   LOCATION L0002817     VOLUME   377513.694 3747423.025 20.24
   LOCATION L0002818     VOLUME   377522.284 3747423.084 20.26
   LOCATION L0002819     VOLUME   377530.875 3747423.143 20.35
   LOCATION L0002820     VOLUME   377539.466 3747423.202 20.47
   LOCATION L0002821     VOLUME   377548.056 3747423.261 20.59
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
   SRCPARAM STCK1         6.82E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK2         6.82E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK3         6.82E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK4         6.82E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK5         6.82E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK6         6.82E-06     3.500   366.000  51.90000     0.091
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0002479     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002480     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002481     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002482     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002483     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002484     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002485     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002486     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002487     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002488     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002489     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002490     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002491     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002492     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002493     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002494     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002495     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002496     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002497     0.0000000895      3.50      4.00      1.63
   SRCPARAM L0002498     0.0000000895      3.50      4.00      1.63
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0002499     0.0000000406      3.50      4.00      1.63
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   SRCPARAM L0002500     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002501     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002502     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002503     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002504     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002505     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002506     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002507     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002508     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002509     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002510     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002511     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002512     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002513     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002514     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002515     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002516     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002517     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002518     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002519     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002520     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002521     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002522     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002523     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002524     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002525     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002526     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002527     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002528     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002529     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002530     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002531     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002532     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002533     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002534     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002535     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002536     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002537     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002538     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002539     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002540     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002541     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002542     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002543     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002544     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002545     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002546     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002547     0.0000000406      3.50      4.00      1.63
   SRCPARAM L0002548     0.0000000406      3.50      4.00      1.63
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
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SRCPARAM L0002549     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002550     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002551     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002552     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002553     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002554     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002555     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002556     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002557     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002558     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002559     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002560     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002561     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002562     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002563     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002564     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002565     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002566     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002567     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002568     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002569     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002570     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002571     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002572     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002573     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002574     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002575     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002576     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002577     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002578     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002579     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002580     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002581     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002582     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002583     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002584     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002585     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002586     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002587     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002588     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002589     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002590     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002591     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002592     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002593     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002594     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002595     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002596     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002597     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002598     0.00000003178      3.50      4.00      1.63
SRCPARAM L0002599     0.00000003178      3.50      4.00      1.63
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   SRCPARAM L0002600     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002601     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002602     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002603     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002604     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002605     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002606     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002607     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002608     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002609     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002610     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002611     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002612     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002613     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002614     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002615     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002616     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002617     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002618     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002619     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002620     0.00000003178      3.50      4.00      1.63
   SRCPARAM L0002621     0.00000003178      3.50      4.00      1.63
** --------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002622     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002623     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002624     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002625     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002626     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002627     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002628     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002629     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002630     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002631     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002632     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002633     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002634     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002635     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002636     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002637     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002638     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002639     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002640     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002641     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002642     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002643     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002644     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002645     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002646     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002647     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002648     0.0000000593      3.50      4.00      1.63
```

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SRCPARAM L0002649     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002650     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002651     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002652     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002653     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002654     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002655     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002656     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002657     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002658     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002659     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002660     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002661     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002662     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002663     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002664     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002665     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002666     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002667     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002668     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002669     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002670     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002671     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002672     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002673     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002674     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002675     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002676     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002677     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002678     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002679     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002680     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002681     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002682     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002683     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002684     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002685     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002686     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002687     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002688     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002689     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002690     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002691     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002692     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002693     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002694     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002695     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002696     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002697     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002698     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002699     0.0000000593      3.50      4.00      1.63
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SRCPARAM L0002700     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002701     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002702     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002703     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002704     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002705     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002706     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002707     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002708     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002709     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002710     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002711     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002712     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002713     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002714     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002715     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002716     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002717     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002718     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002719     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002720     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002721     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002722     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002723     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002724     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002725     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002726     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002727     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002728     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002729     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002730     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002731     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002732     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002733     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002734     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002735     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002736     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002737     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002738     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002739     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002740     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002741     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002742     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002743     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002744     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002745     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002746     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002747     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002748     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002749     0.0000000593      3.50      4.00      1.63
SRCPARAM L0002750     0.0000000593      3.50      4.00      1.63
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   SRCPARAM L0002752     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002753     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002754     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002755     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002756     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002757     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002758     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002759     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002760     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002761     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002762     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002763     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002764     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002765     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002766     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002767     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002768     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002769     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002770     0.0000000593      3.50      4.00      1.63
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   SRCPARAM L0002772     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002773     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002774     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002775     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002776     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002777     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002778     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002779     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002780     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002781     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002782     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002783     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002784     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002785     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002786     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002787     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002788     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002789     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002790     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002791     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002792     0.0000000593      3.50      4.00      1.63
   SRCPARAM L0002793     0.0000000593      3.50      4.00      1.63
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002794     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002795     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002796     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002797     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002798     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002799     0.0000001786      3.50      4.00      5.10
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   SRCPARAM L0002800     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002801     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002802     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002803     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002804     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002805     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002806     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002807     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002808     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002809     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002810     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002811     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002812     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002813     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002814     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002815     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002816     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002817     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002818     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002819     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002820     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002821     0.0000001786      3.50      4.00      5.10
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
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BUILDHGT STCK4	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDWID STCK1	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK1	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK1	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK1	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK1	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK1	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK2	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK2	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK2	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK2	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK2	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK2	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK3	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK3	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK3	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK3	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK3	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK3	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK4	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK4	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK4	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK4	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK4	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK4	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK5	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK5	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK5	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK5	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK5	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK5	249.87	265.99	274.04	273.76	265.16	249.91

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BUILDWID STCK6          257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK6          174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK6          249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK6          257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK6          174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK6          249.87   265.99   274.04   273.76   265.16   249.91

BUILDLEN STCK1          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK1          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK1          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK1          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK1          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK1          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK2          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK2          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK2          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK2          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK2          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK2          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK3          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK3          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK3          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK3          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK3          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK3          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK4          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK4          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK4          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK4          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK4          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK4          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK5          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK5          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK5          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK5          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK5          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK5          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK6          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK6          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK6          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK6          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK6          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK6          249.40   231.30   206.18   174.78   138.08   117.90

XBADJ    STCK1         -105.24  -105.31  -102.18   -95.95   -86.80   -75.02
XBADJ    STCK1          -60.95   -45.04   -28.22   -27.12   -25.20   -22.52
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XBADJ	STCK1	-19.15	-15.20	-10.78	-6.04	-1.12	-15.93
XBADJ	STCK1	-53.78	-90.24	-123.96	-153.91	-179.19	-199.02
XBADJ	STCK1	-212.80	-220.12	-221.69	-230.07	-237.35	-237.41
XBADJ	STCK1	-230.25	-216.11	-195.39	-168.74	-136.96	-101.97
XBADJ	STCK2	-113.90	-121.64	-125.67	-125.89	-122.29	-114.96
XBADJ	STCK2	-104.15	-90.17	-73.92	-72.00	-67.90	-61.73
XBADJ	STCK2	-53.68	-44.01	-32.99	-20.98	-8.33	-15.19
XBADJ	STCK2	-45.12	-73.92	-100.47	-123.97	-143.71	-159.07
XBADJ	STCK2	-169.61	-174.99	-175.99	-185.20	-194.66	-198.20
XBADJ	STCK2	-195.72	-187.30	-173.18	-153.80	-129.75	-102.71
XBADJ	STCK3	-120.75	-135.28	-145.69	-151.68	-153.06	-149.79
XBADJ	STCK3	-141.97	-129.83	-114.22	-111.72	-105.82	-96.70
XBADJ	STCK3	-84.65	-70.03	-53.27	-34.90	-15.47	-15.34
XBADJ	STCK3	-38.27	-60.28	-80.45	-98.18	-112.93	-124.25
XBADJ	STCK3	-131.79	-135.32	-135.69	-145.48	-156.73	-163.22
XBADJ	STCK3	-164.75	-161.28	-152.90	-139.88	-122.61	-102.56
XBADJ	STCK4	-125.91	-145.43	-160.54	-170.77	-175.81	-175.50
XBADJ	STCK4	-169.87	-159.07	-143.91	-140.95	-133.72	-122.41
XBADJ	STCK4	-107.39	-89.11	-68.12	-45.06	-20.63	-15.34
XBADJ	STCK4	-33.11	-50.12	-65.61	-79.10	-90.19	-98.53
XBADJ	STCK4	-103.89	-106.09	-106.00	-116.24	-128.83	-137.51
XBADJ	STCK4	-142.01	-142.19	-138.06	-129.73	-117.45	-102.56
XBADJ	STCK5	-132.32	-156.89	-176.69	-191.12	-199.74	-202.29
XBADJ	STCK5	-198.70	-189.07	-174.16	-170.54	-161.74	-148.02
XBADJ	STCK5	-129.81	-107.65	-82.22	-54.29	-24.72	-14.16
XBADJ	STCK5	-26.70	-38.67	-49.46	-58.75	-66.26	-71.75
XBADJ	STCK5	-75.06	-76.09	-75.75	-86.66	-100.81	-111.90
XBADJ	STCK5	-119.60	-123.65	-123.95	-120.49	-113.36	-103.74
XBADJ	STCK6	-136.55	-166.54	-191.46	-210.57	-223.28	-229.20
XBADJ	STCK6	-228.16	-220.19	-206.00	-202.13	-192.11	-176.26
XBADJ	STCK6	-155.05	-129.13	-99.28	-66.42	-31.55	-15.48
XBADJ	STCK6	-22.47	-29.02	-34.68	-39.30	-42.71	-44.83
XBADJ	STCK6	-45.59	-44.96	-43.91	-55.07	-70.44	-83.67
XBADJ	STCK6	-94.36	-102.18	-106.89	-108.36	-106.53	-102.42
YBADJ	STCK1	-101.47	-106.07	-107.44	-105.55	-100.45	-92.30
YBADJ	STCK1	-81.35	-67.92	-43.02	-25.73	-7.53	10.89
YBADJ	STCK1	28.98	46.19	62.00	75.93	87.54	96.74
YBADJ	STCK1	101.47	106.07	107.44	105.55	100.45	92.30
YBADJ	STCK1	81.35	67.92	43.02	25.73	7.53	-10.89
YBADJ	STCK1	-28.98	-46.19	-62.00	-75.93	-87.54	-96.74
YBADJ	STCK2	-56.60	-63.38	-68.24	-71.02	-71.65	-70.09
YBADJ	STCK2	-66.41	-60.71	-43.76	-34.39	-23.86	-12.60
YBADJ	STCK2	-0.96	10.71	22.05	32.73	42.41	51.04
YBADJ	STCK2	56.60	63.38	68.24	71.02	71.65	70.09

```
   YBADJ    STCK2           66.41    60.71    43.76    34.39    23.86    12.60
   YBADJ    STCK2            0.96   -10.71   -22.05   -32.73   -42.41   -51.04

   YBADJ    STCK3          -16.88   -25.46   -33.26   -40.05   -45.63   -49.81
   YBADJ    STCK3          -52.49   -53.57   -43.61   -41.24   -37.50   -32.62
   YBADJ    STCK3          -26.75   -20.07   -12.77    -5.09     2.75    10.74
   YBADJ    STCK3           16.88    25.46    33.26    40.05    45.63    49.81
   YBADJ    STCK3           52.49    53.57    43.61    41.24    37.50    32.62
   YBADJ    STCK3           26.75    20.07    12.77     5.09    -2.75   -10.74

   YBADJ    STCK4           12.36     2.44    -7.55   -17.31   -26.54   -34.97
   YBADJ    STCK4          -42.33   -48.41   -43.61   -46.40   -47.66   -47.47
   YBADJ    STCK4          -45.83   -42.81   -38.48   -32.99   -26.49   -18.95
   YBADJ    STCK4          -12.36    -2.44     7.55    17.31    26.54    34.97
   YBADJ    STCK4           42.33    48.41    43.61    46.40    47.66    47.47
   YBADJ    STCK4           45.83    42.81    38.48    32.99    26.49    18.95

   YBADJ    STCK5           41.94    30.46    18.06     5.11    -8.00   -20.87
   YBADJ    STCK5          -33.10   -44.32   -44.79   -52.81   -59.11   -63.61
   YBADJ    STCK5          -66.18   -66.74   -65.27   -61.82   -56.49   -49.20
   YBADJ    STCK5          -41.94   -30.46   -18.06    -5.11     8.00    20.87
   YBADJ    STCK5           33.10    44.32    44.79    52.81    59.11    63.61
   YBADJ    STCK5           66.18    66.74    65.27    61.82    56.49    49.20

   YBADJ    STCK6           73.53    60.83    46.29    30.35    13.48    -3.80
   YBADJ    STCK6          -20.97   -37.49   -43.47   -57.04   -68.76   -78.39
   YBADJ    STCK6          -85.64   -90.28   -92.19   -91.29   -87.61   -81.04
   YBADJ    STCK6          -73.53   -60.83   -46.29   -30.35   -13.48     3.80
   YBADJ    STCK6           20.97    37.49    43.47    57.04    68.76    78.39
   YBADJ    STCK6           85.64    90.28    92.19    91.29    87.61    81.04

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "190th St Warehouse 2022 1st 14YR.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC"
```

```
   PROFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL"
   SURFDATA 3167 2012
   UAIRDATA 3190 2012
   PROFBASE 19.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "190TH ST WAREHOUSE 2022 1ST 14YR.AD\PE00GALL.PLT" 31
   SUMMFILE "190th St Warehouse 2022 1st 14YR.sum"
OU FINISHED


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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            8 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 SO W320     480        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     481        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     482        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     483        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     484        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     485        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 ME W186    1075       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    1075       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


 *** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                  ***        08/29/22
 *** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                  ***        08:39:57
                                                                                                               PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   349 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    349 Source(s);       1 Source Group(s); and     449 Receptor(s)

              with:      6 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:    343 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)


**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) =    19.00 ;  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 =      4.2 MB of RAM.

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

**Detailed Error/Message File:   190th St Warehouse 2022 1st 14YR.err
**File for Summary of Results:   190th St Warehouse 2022 1st 14YR.sum

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                          ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                          ***        08:39:57
                                                                                                                     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   0.68200E-05  377355.8 3747400.0    19.1     3.50   366.00    51.90     0.09    YES     YES   NO
STCK2           0   0.68200E-05  377401.5 3747400.7    19.4     3.50   366.00    51.90     0.09    YES     YES   NO
STCK3           0   0.68200E-05  377441.8 3747400.6    19.7     3.50   366.00    51.90     0.09    YES     YES   NO
STCK4           0   0.68200E-05  377471.5 3747400.6    19.9     3.50   366.00    51.90     0.09    YES     YES   NO
STCK5           0   0.68200E-05  377501.8 3747401.7    20.2     3.50   366.00    51.90     0.09    YES     YES   NO
STCK6           0   0.68200E-05  377533.6 3747400.4    20.9     3.50   366.00    51.90     0.09    YES     YES   NO

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                          ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                          ***        08:39:57
                                                                                                                     PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
```

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0002479         0   0.89500E-07  377297.3 3747259.0    17.9     3.50     4.00     1.63     YES
L0002480         0   0.89500E-07  377297.2 3747267.6    17.9     3.50     4.00     1.63     YES
L0002481         0   0.89500E-07  377297.2 3747276.2    18.0     3.50     4.00     1.63     YES
L0002482         0   0.89500E-07  377297.1 3747284.8    18.1     3.50     4.00     1.63     YES
L0002483         0   0.89500E-07  377297.0 3747293.3    18.1     3.50     4.00     1.63     YES
L0002484         0   0.89500E-07  377296.9 3747301.9    18.2     3.50     4.00     1.63     YES
L0002485         0   0.89500E-07  377296.8 3747310.5    18.3     3.50     4.00     1.63     YES
L0002486         0   0.89500E-07  377296.8 3747319.1    18.3     3.50     4.00     1.63     YES
L0002487         0   0.89500E-07  377296.7 3747327.7    18.4     3.50     4.00     1.63     YES
L0002488         0   0.89500E-07  377296.6 3747336.3    18.4     3.50     4.00     1.63     YES
L0002489         0   0.89500E-07  377296.5 3747344.9    18.4     3.50     4.00     1.63     YES
L0002490         0   0.89500E-07  377296.4 3747353.5    18.4     3.50     4.00     1.63     YES
L0002491         0   0.89500E-07  377296.4 3747362.1    18.4     3.50     4.00     1.63     YES
L0002492         0   0.89500E-07  377296.3 3747370.7    18.4     3.50     4.00     1.63     YES
L0002493         0   0.89500E-07  377296.2 3747379.2    18.5     3.50     4.00     1.63     YES
L0002494         0   0.89500E-07  377296.1 3747387.8    18.5     3.50     4.00     1.63     YES
L0002495         0   0.89500E-07  377296.0 3747396.4    18.6     3.50     4.00     1.63     YES
L0002496         0   0.89500E-07  377295.9 3747405.0    18.6     3.50     4.00     1.63     YES
L0002497         0   0.89500E-07  377295.9 3747413.6    18.7     3.50     4.00     1.63     YES
L0002498         0   0.89500E-07  377303.0 3747417.5    18.8     3.50     4.00     1.63     YES
L0002499         0   0.40600E-07  377293.2 3747828.2    20.5     3.50     4.00     1.63     YES
L0002500         0   0.40600E-07  377293.2 3747819.6    20.6     3.50     4.00     1.63     YES
L0002501         0   0.40600E-07  377293.3 3747811.0    20.6     3.50     4.00     1.63     YES
L0002502         0   0.40600E-07  377293.3 3747802.4    20.7     3.50     4.00     1.63     YES
L0002503         0   0.40600E-07  377293.4 3747793.8    20.7     3.50     4.00     1.63     YES
L0002504         0   0.40600E-07  377293.4 3747785.2    20.7     3.50     4.00     1.63     YES
L0002505         0   0.40600E-07  377293.5 3747776.6    20.7     3.50     4.00     1.63     YES
L0002506         0   0.40600E-07  377293.6 3747768.1    20.7     3.50     4.00     1.63     YES
L0002507         0   0.40600E-07  377293.6 3747759.5    20.7     3.50     4.00     1.63     YES
L0002508         0   0.40600E-07  377293.7 3747750.9    20.7     3.50     4.00     1.63     YES
L0002509         0   0.40600E-07  377293.7 3747742.3    20.6     3.50     4.00     1.63     YES
L0002510         0   0.40600E-07  377293.8 3747733.7    20.6     3.50     4.00     1.63     YES
L0002511         0   0.40600E-07  377293.8 3747725.1    20.6     3.50     4.00     1.63     YES
L0002512         0   0.40600E-07  377293.9 3747716.5    20.5     3.50     4.00     1.63     YES
L0002513         0   0.40600E-07  377293.9 3747707.9    20.5     3.50     4.00     1.63     YES
L0002514         0   0.40600E-07  377294.0 3747699.3    20.4     3.50     4.00     1.63     YES
L0002515         0   0.40600E-07  377294.0 3747690.7    20.3     3.50     4.00     1.63     YES
L0002516         0   0.40600E-07  377294.1 3747682.1    20.2     3.50     4.00     1.63     YES
L0002517         0   0.40600E-07  377294.2 3747673.6    20.2     3.50     4.00     1.63     YES
L0002518         0   0.40600E-07  377294.2 3747665.0    20.1     3.50     4.00     1.63     YES

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                  ***        08:39:57
                                                                                                              PAGE   4
*** 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
L0002519	0	0.40600E-07	377294.3	3747656.4	20.1	3.50	4.00	1.63	YES	
L0002520	0	0.40600E-07	377294.3	3747647.8	20.0	3.50	4.00	1.63	YES	
L0002521	0	0.40600E-07	377294.4	3747639.2	19.9	3.50	4.00	1.63	YES	
L0002522	0	0.40600E-07	377294.4	3747630.6	19.8	3.50	4.00	1.63	YES	
L0002523	0	0.40600E-07	377294.5	3747622.0	19.8	3.50	4.00	1.63	YES	
L0002524	0	0.40600E-07	377294.5	3747613.4	19.7	3.50	4.00	1.63	YES	
L0002525	0	0.40600E-07	377294.6	3747604.8	19.6	3.50	4.00	1.63	YES	
L0002526	0	0.40600E-07	377294.6	3747596.2	19.5	3.50	4.00	1.63	YES	
L0002527	0	0.40600E-07	377294.7	3747587.6	19.4	3.50	4.00	1.63	YES	
L0002528	0	0.40600E-07	377294.8	3747579.1	19.4	3.50	4.00	1.63	YES	
L0002529	0	0.40600E-07	377294.8	3747570.5	19.3	3.50	4.00	1.63	YES	
L0002530	0	0.40600E-07	377294.9	3747561.9	19.2	3.50	4.00	1.63	YES	
L0002531	0	0.40600E-07	377294.7	3747553.3	19.2	3.50	4.00	1.63	YES	
L0002532	0	0.40600E-07	377294.1	3747544.7	19.1	3.50	4.00	1.63	YES	
L0002533	0	0.40600E-07	377293.6	3747536.1	19.1	3.50	4.00	1.63	YES	
L0002534	0	0.40600E-07	377293.1	3747527.6	19.1	3.50	4.00	1.63	YES	
L0002535	0	0.40600E-07	377292.5	3747519.0	19.1	3.50	4.00	1.63	YES	
L0002536	0	0.40600E-07	377291.9	3747510.4	19.1	3.50	4.00	1.63	YES	
L0002537	0	0.40600E-07	377289.5	3747502.2	19.0	3.50	4.00	1.63	YES	
L0002538	0	0.40600E-07	377287.2	3747493.9	18.9	3.50	4.00	1.63	YES	
L0002539	0	0.40600E-07	377284.8	3747485.7	18.8	3.50	4.00	1.63	YES	
L0002540	0	0.40600E-07	377282.5	3747477.4	18.7	3.50	4.00	1.63	YES	
L0002541	0	0.40600E-07	377280.1	3747469.1	18.7	3.50	4.00	1.63	YES	
L0002542	0	0.40600E-07	377276.6	3747461.3	18.7	3.50	4.00	1.63	YES	
L0002543	0	0.40600E-07	377273.1	3747453.5	18.7	3.50	4.00	1.63	YES	
L0002544	0	0.40600E-07	377269.6	3747445.6	18.7	3.50	4.00	1.63	YES	
L0002545	0	0.40600E-07	377265.4	3747438.1	18.7	3.50	4.00	1.63	YES	
L0002546	0	0.40600E-07	377270.4	3747432.4	18.7	3.50	4.00	1.63	YES	
L0002547	0	0.40600E-07	377277.1	3747427.2	18.8	3.50	4.00	1.63	YES	
L0002548	0	0.40600E-07	377283.9	3747421.9	18.8	3.50	4.00	1.63	YES	
L0002549	0	0.31780E-07	377291.7	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002550	0	0.31780E-07	377283.1	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002551	0	0.31780E-07	377274.5	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002552	0	0.31780E-07	377265.9	3747243.3	17.8	3.50	4.00	1.63	YES	
L0002553	0	0.31780E-07	377257.3	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002554	0	0.31780E-07	377248.7	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002555	0	0.31780E-07	377240.1	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002556	0	0.31780E-07	377231.6	3747243.3	17.8	3.50	4.00	1.63	YES	
L0002557	0	0.31780E-07	377223.0	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002558	0	0.31780E-07	377214.4	3747243.3	18.0	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
L0002559	0	0.31780E-07	377205.8	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002560	0	0.31780E-07	377197.2	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002561	0	0.31780E-07	377188.6	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002562	0	0.31780E-07	377180.0	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002563	0	0.31780E-07	377171.4	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002564	0	0.31780E-07	377162.8	3747243.3	18.1	3.50	4.00	1.63	YES	
L0002565	0	0.31780E-07	377154.2	3747243.3	18.2	3.50	4.00	1.63	YES	
L0002566	0	0.31780E-07	377145.6	3747243.3	18.3	3.50	4.00	1.63	YES	
L0002567	0	0.31780E-07	377137.1	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002568	0	0.31780E-07	377128.5	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002569	0	0.31780E-07	377119.9	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002570	0	0.31780E-07	377111.3	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002571	0	0.31780E-07	377102.7	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002572	0	0.31780E-07	377094.1	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002573	0	0.31780E-07	377085.5	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002574	0	0.31780E-07	377076.9	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002575	0	0.31780E-07	377068.3	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002576	0	0.31780E-07	377059.7	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002577	0	0.31780E-07	377051.1	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002578	0	0.31780E-07	377042.6	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002579	0	0.31780E-07	377034.0	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002580	0	0.31780E-07	377025.4	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002581	0	0.31780E-07	377016.8	3747243.4	18.9	3.50	4.00	1.63	YES	
L0002582	0	0.31780E-07	377008.2	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002583	0	0.31780E-07	376999.6	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002584	0	0.31780E-07	376991.0	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002585	0	0.31780E-07	376982.4	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002586	0	0.31780E-07	376973.8	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002587	0	0.31780E-07	376965.2	3747243.5	19.0	3.50	4.00	1.63	YES	
L0002588	0	0.31780E-07	376956.6	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002589	0	0.31780E-07	376948.1	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002590	0	0.31780E-07	376939.5	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002591	0	0.31780E-07	376930.9	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002592	0	0.31780E-07	376922.3	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002593	0	0.31780E-07	376913.7	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002594	0	0.31780E-07	376905.1	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002595	0	0.31780E-07	376896.5	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002596	0	0.31780E-07	376887.9	3747243.5	19.3	3.50	4.00	1.63	YES	
L0002597	0	0.31780E-07	376879.3	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002598	0	0.31780E-07	376870.7	3747243.6	19.4	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
L0002599	0	0.31780E-07	376862.1	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002600	0	0.31780E-07	376853.6	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002601	0	0.31780E-07	376845.0	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002602	0	0.31780E-07	376836.4	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002603	0	0.31780E-07	376827.8	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002604	0	0.31780E-07	376819.2	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002605	0	0.31780E-07	376810.6	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002606	0	0.31780E-07	376802.0	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002607	0	0.31780E-07	376793.4	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002608	0	0.31780E-07	376784.8	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002609	0	0.31780E-07	376776.2	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002610	0	0.31780E-07	376767.7	3747243.6	19.6	3.50	4.00	1.63	YES	
L0002611	0	0.31780E-07	376759.1	3747243.6	19.6	3.50	4.00	1.63	YES	
L0002612	0	0.31780E-07	376750.5	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002613	0	0.31780E-07	376741.9	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002614	0	0.31780E-07	376733.3	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002615	0	0.31780E-07	376724.7	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002616	0	0.31780E-07	376716.1	3747243.7	19.8	3.50	4.00	1.63	YES	
L0002617	0	0.31780E-07	376707.5	3747243.7	19.9	3.50	4.00	1.63	YES	
L0002618	0	0.31780E-07	376698.9	3747243.7	19.9	3.50	4.00	1.63	YES	
L0002619	0	0.31780E-07	376690.3	3747243.7	20.0	3.50	4.00	1.63	YES	
L0002620	0	0.31780E-07	376681.7	3747243.7	20.0	3.50	4.00	1.63	YES	
L0002621	0	0.31780E-07	376673.2	3747243.7	20.1	3.50	4.00	1.63	YES	
L0002622	0	0.59300E-07	377300.6	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002623	0	0.59300E-07	377309.2	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002624	0	0.59300E-07	377317.7	3747243.3	18.1	3.50	4.00	1.63	YES	
L0002625	0	0.59300E-07	377326.3	3747243.3	18.2	3.50	4.00	1.63	YES	
L0002626	0	0.59300E-07	377334.9	3747243.3	18.3	3.50	4.00	1.63	YES	
L0002627	0	0.59300E-07	377343.5	3747243.3	18.4	3.50	4.00	1.63	YES	
L0002628	0	0.59300E-07	377352.1	3747243.3	18.5	3.50	4.00	1.63	YES	
L0002629	0	0.59300E-07	377360.7	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002630	0	0.59300E-07	377369.3	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002631	0	0.59300E-07	377377.9	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002632	0	0.59300E-07	377386.5	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002633	0	0.59300E-07	377395.1	3747243.4	18.9	3.50	4.00	1.63	YES	
L0002634	0	0.59300E-07	377403.7	3747243.4	19.0	3.50	4.00	1.63	YES	
L0002635	0	0.59300E-07	377412.2	3747243.4	19.2	3.50	4.00	1.63	YES	
L0002636	0	0.59300E-07	377420.8	3747243.4	19.3	3.50	4.00	1.63	YES	
L0002637	0	0.59300E-07	377429.4	3747243.4	19.4	3.50	4.00	1.63	YES	
L0002638	0	0.59300E-07	377438.0	3747243.4	19.5	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
L0002639	0	0.59300E-07	377446.6	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002640	0	0.59300E-07	377455.2	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002641	0	0.59300E-07	377463.8	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002642	0	0.59300E-07	377472.4	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002643	0	0.59300E-07	377481.0	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002644	0	0.59300E-07	377489.6	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002645	0	0.59300E-07	377498.1	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002646	0	0.59300E-07	377506.7	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002647	0	0.59300E-07	377515.3	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002648	0	0.59300E-07	377523.9	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002649	0	0.59300E-07	377532.5	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002650	0	0.59300E-07	377541.1	3747243.4	19.5	3.50	4.00	1.63	YES	
L0002651	0	0.59300E-07	377549.7	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002652	0	0.59300E-07	377558.3	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002653	0	0.59300E-07	377566.9	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002654	0	0.59300E-07	377575.5	3747243.5	19.4	3.50	4.00	1.63	YES	
L0002655	0	0.59300E-07	377584.1	3747243.5	19.4	3.50	4.00	1.63	YES	
L0002656	0	0.59300E-07	377592.6	3747243.5	19.3	3.50	4.00	1.63	YES	
L0002657	0	0.59300E-07	377601.2	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002658	0	0.59300E-07	377609.8	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002659	0	0.59300E-07	377618.4	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002660	0	0.59300E-07	377627.0	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002661	0	0.59300E-07	377635.6	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002662	0	0.59300E-07	377644.2	3747243.5	19.0	3.50	4.00	1.63	YES	
L0002663	0	0.59300E-07	377652.8	3747243.5	19.0	3.50	4.00	1.63	YES	
L0002664	0	0.59300E-07	377661.4	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002665	0	0.59300E-07	377670.0	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002666	0	0.59300E-07	377678.6	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002667	0	0.59300E-07	377687.1	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002668	0	0.59300E-07	377695.7	3747243.5	18.7	3.50	4.00	1.63	YES	
L0002669	0	0.59300E-07	377704.3	3747243.5	18.7	3.50	4.00	1.63	YES	
L0002670	0	0.59300E-07	377712.9	3747243.5	18.6	3.50	4.00	1.63	YES	
L0002671	0	0.59300E-07	377721.5	3747243.5	18.6	3.50	4.00	1.63	YES	
L0002672	0	0.59300E-07	377730.1	3747243.5	18.5	3.50	4.00	1.63	YES	
L0002673	0	0.59300E-07	377738.7	3747243.6	18.5	3.50	4.00	1.63	YES	
L0002674	0	0.59300E-07	377747.3	3747243.6	18.4	3.50	4.00	1.63	YES	
L0002675	0	0.59300E-07	377755.9	3747243.6	18.4	3.50	4.00	1.63	YES	

L0002676	0	0.59300E-07	377764.5	3747243.6	18.3	3.50	4.00	1.63	YES
L0002677	0	0.59300E-07	377773.1	3747243.6	18.2	3.50	4.00	1.63	YES
L0002678	0	0.59300E-07	377781.6	3747243.6	18.2	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
L0002679	0	0.59300E-07	377790.2	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002680	0	0.59300E-07	377798.8	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002681	0	0.59300E-07	377807.4	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002682	0	0.59300E-07	377816.0	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002683	0	0.59300E-07	377824.6	3747243.6	18.2	3.50	4.00	1.63	YES	
L0002684	0	0.59300E-07	377833.2	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002685	0	0.59300E-07	377841.8	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002686	0	0.59300E-07	377850.4	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002687	0	0.59300E-07	377859.0	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002688	0	0.59300E-07	377867.6	3747243.6	18.3	3.50	4.00	1.63	YES	
L0002689	0	0.59300E-07	377876.1	3747243.6	18.4	3.50	4.00	1.63	YES	
L0002690	0	0.59300E-07	377884.7	3747243.6	18.4	3.50	4.00	1.63	YES	
L0002691	0	0.59300E-07	377893.3	3747243.6	18.5	3.50	4.00	1.63	YES	
L0002692	0	0.59300E-07	377901.9	3747243.6	18.6	3.50	4.00	1.63	YES	
L0002693	0	0.59300E-07	377910.5	3747243.6	18.6	3.50	4.00	1.63	YES	
L0002694	0	0.59300E-07	377919.1	3747243.6	18.7	3.50	4.00	1.63	YES	
L0002695	0	0.59300E-07	377927.7	3747243.7	18.7	3.50	4.00	1.63	YES	
L0002696	0	0.59300E-07	377936.3	3747243.7	18.8	3.50	4.00	1.63	YES	
L0002697	0	0.59300E-07	377944.9	3747243.7	18.9	3.50	4.00	1.63	YES	
L0002698	0	0.59300E-07	377953.5	3747243.7	19.1	3.50	4.00	1.63	YES	
L0002699	0	0.59300E-07	377962.1	3747243.7	19.2	3.50	4.00	1.63	YES	
L0002700	0	0.59300E-07	377970.6	3747243.7	19.1	3.50	4.00	1.63	YES	
L0002701	0	0.59300E-07	377979.2	3747243.7	19.1	3.50	4.00	1.63	YES	
L0002702	0	0.59300E-07	377987.8	3747243.7	19.1	3.50	4.00	1.63	YES	
L0002703	0	0.59300E-07	377996.4	3747243.7	19.2	3.50	4.00	1.63	YES	
L0002704	0	0.59300E-07	378005.0	3747243.7	19.2	3.50	4.00	1.63	YES	
L0002705	0	0.59300E-07	378013.6	3747243.7	19.2	3.50	4.00	1.63	YES	
L0002706	0	0.59300E-07	378022.2	3747243.7	19.3	3.50	4.00	1.63	YES	
L0002707	0	0.59300E-07	378030.8	3747243.7	19.3	3.50	4.00	1.63	YES	
L0002708	0	0.59300E-07	378039.4	3747243.7	19.4	3.50	4.00	1.63	YES	
L0002709	0	0.59300E-07	378048.0	3747243.7	19.5	3.50	4.00	1.63	YES	
L0002710	0	0.59300E-07	378056.6	3747243.7	19.6	3.50	4.00	1.63	YES	
L0002711	0	0.59300E-07	378065.1	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002712	0	0.59300E-07	378073.7	3747243.7	19.7	3.50	4.00	1.63	YES	

L0002713	0	0.59300E-07	378082.3	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002714	0	0.59300E-07	378090.9	3747243.7	19.8	3.50	4.00	1.63	YES	
L0002715	0	0.59300E-07	378099.5	3747243.7	19.8	3.50	4.00	1.63	YES	
L0002716	0	0.59300E-07	378108.1	3747243.7	19.9	3.50	4.00	1.63	YES	
L0002717	0	0.59300E-07	378116.7	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002718	0	0.59300E-07	378125.3	3747243.8	19.9	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
L0002719	0	0.59300E-07	378133.9	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002720	0	0.59300E-07	378142.5	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002721	0	0.59300E-07	378151.1	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002722	0	0.59300E-07	378159.6	3747243.8	19.9	3.50	4.00	1.63	YES	
L0002723	0	0.59300E-07	378168.2	3747243.8	19.8	3.50	4.00	1.63	YES	
L0002724	0	0.59300E-07	378176.8	3747243.8	19.8	3.50	4.00	1.63	YES	
L0002725	0	0.59300E-07	378185.4	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002726	0	0.59300E-07	378194.0	3747243.8	19.6	3.50	4.00	1.63	YES	
L0002727	0	0.59300E-07	378202.6	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002728	0	0.59300E-07	378211.2	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002729	0	0.59300E-07	378219.8	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002730	0	0.59300E-07	378228.4	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002731	0	0.59300E-07	378237.0	3747243.8	19.7	3.50	4.00	1.63	YES	
L0002732	0	0.59300E-07	378245.5	3747243.8	19.6	3.50	4.00	1.63	YES	
L0002733	0	0.59300E-07	378254.1	3747243.8	19.5	3.50	4.00	1.63	YES	
L0002734	0	0.59300E-07	378262.7	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002735	0	0.59300E-07	378271.3	3747243.8	19.3	3.50	4.00	1.63	YES	
L0002736	0	0.59300E-07	378279.9	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002737	0	0.59300E-07	378288.5	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002738	0	0.59300E-07	378297.1	3747243.8	19.4	3.50	4.00	1.63	YES	
L0002739	0	0.59300E-07	378305.7	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002740	0	0.59300E-07	378314.3	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002741	0	0.59300E-07	378322.9	3747243.9	19.4	3.50	4.00	1.63	YES	
L0002742	0	0.59300E-07	378331.5	3747243.9	19.3	3.50	4.00	1.63	YES	
L0002743	0	0.59300E-07	378340.0	3747243.9	19.3	3.50	4.00	1.63	YES	
L0002744	0	0.59300E-07	378348.6	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002745	0	0.59300E-07	378357.2	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002746	0	0.59300E-07	378365.8	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002747	0	0.59300E-07	378374.4	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002748	0	0.59300E-07	378383.0	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002749	0	0.59300E-07	378391.6	3747243.9	19.2	3.50	4.00	1.63	YES	

L0002750	0	0.59300E-07	378400.2	3747243.9	19.2	3.50	4.00	1.63	YES
L0002751	0	0.59300E-07	378408.8	3747243.9	19.1	3.50	4.00	1.63	YES
L0002752	0	0.59300E-07	378417.4	3747243.9	19.0	3.50	4.00	1.63	YES
L0002753	0	0.59300E-07	378426.0	3747243.9	19.0	3.50	4.00	1.63	YES
L0002754	0	0.59300E-07	378434.5	3747243.9	19.1	3.50	4.00	1.63	YES
L0002755	0	0.59300E-07	378443.1	3747243.9	19.2	3.50	4.00	1.63	YES
L0002756	0	0.59300E-07	378451.7	3747243.9	19.2	3.50	4.00	1.63	YES
L0002757	0	0.59300E-07	378460.3	3747243.9	19.2	3.50	4.00	1.63	YES
L0002758	0	0.59300E-07	378468.9	3747243.9	19.2	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
L0002759	0	0.59300E-07	378477.5	3747243.9	19.2	3.50	4.00	1.63	YES	
L0002760	0	0.59300E-07	378486.1	3747243.9	19.1	3.50	4.00	1.63	YES	
L0002761	0	0.59300E-07	378494.7	3747244.0	19.0	3.50	4.00	1.63	YES	
L0002762	0	0.59300E-07	378503.3	3747244.0	19.0	3.50	4.00	1.63	YES	
L0002763	0	0.59300E-07	378511.9	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002764	0	0.59300E-07	378520.5	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002765	0	0.59300E-07	378529.0	3747244.0	18.9	3.50	4.00	1.63	YES	
L0002766	0	0.59300E-07	378537.6	3747244.0	18.8	3.50	4.00	1.63	YES	
L0002767	0	0.59300E-07	378546.2	3747244.0	18.8	3.50	4.00	1.63	YES	
L0002768	0	0.59300E-07	378554.8	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002769	0	0.59300E-07	378563.4	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002770	0	0.59300E-07	378572.0	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002771	0	0.59300E-07	378580.6	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002772	0	0.59300E-07	378589.2	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002773	0	0.59300E-07	378597.8	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002774	0	0.59300E-07	378606.4	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002775	0	0.59300E-07	378615.0	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002776	0	0.59300E-07	378623.5	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002777	0	0.59300E-07	378632.1	3747244.0	18.7	3.50	4.00	1.63	YES	
L0002778	0	0.59300E-07	378640.7	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002779	0	0.59300E-07	378649.3	3747244.0	18.6	3.50	4.00	1.63	YES	
L0002780	0	0.59300E-07	378657.9	3747244.0	18.5	3.50	4.00	1.63	YES	
L0002781	0	0.59300E-07	378666.5	3747244.0	18.4	3.50	4.00	1.63	YES	
L0002782	0	0.59300E-07	378675.1	3747244.0	18.4	3.50	4.00	1.63	YES	
L0002783	0	0.59300E-07	378683.7	3747244.1	18.3	3.50	4.00	1.63	YES	
L0002784	0	0.59300E-07	378692.3	3747244.1	18.4	3.50	4.00	1.63	YES	
L0002785	0	0.59300E-07	378700.9	3747244.1	18.4	3.50	4.00	1.63	YES	
L0002786	0	0.59300E-07	378709.5	3747244.1	18.4	3.50	4.00	1.63	YES	

L0002787	0	0.59300E-07	378718.0	3747244.1	18.4	3.50	4.00	1.63	YES
L0002788	0	0.59300E-07	378726.6	3747244.1	18.4	3.50	4.00	1.63	YES
L0002789	0	0.59300E-07	378735.2	3747244.1	18.3	3.50	4.00	1.63	YES
L0002790	0	0.59300E-07	378743.8	3747244.1	18.2	3.50	4.00	1.63	YES
L0002791	0	0.59300E-07	378752.4	3747244.1	18.2	3.50	4.00	1.63	YES
L0002792	0	0.59300E-07	378761.0	3747244.1	18.1	3.50	4.00	1.63	YES
L0002793	0	0.59300E-07	378769.6	3747244.1	18.1	3.50	4.00	1.63	YES
L0002794	0	0.17860E-06	377316.3	3747420.1	19.0	3.50	4.00	5.10	YES
L0002795	0	0.17860E-06	377324.7	3747421.7	19.0	3.50	4.00	5.10	YES
L0002796	0	0.17860E-06	377333.3	3747421.8	19.1	3.50	4.00	5.10	YES
L0002797	0	0.17860E-06	377341.9	3747421.8	19.1	3.50	4.00	5.10	YES
L0002798	0	0.17860E-06	377350.5	3747421.9	19.2	3.50	4.00	5.10	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
L0002799	0	0.17860E-06	377359.1	3747422.0	19.2	3.50	4.00	5.10	YES	
L0002800	0	0.17860E-06	377367.7	3747422.0	19.3	3.50	4.00	5.10	YES	
L0002801	0	0.17860E-06	377376.2	3747422.1	19.4	3.50	4.00	5.10	YES	
L0002802	0	0.17860E-06	377384.8	3747422.1	19.4	3.50	4.00	5.10	YES	
L0002803	0	0.17860E-06	377393.4	3747422.2	19.5	3.50	4.00	5.10	YES	
L0002804	0	0.17860E-06	377402.0	3747422.3	19.5	3.50	4.00	5.10	YES	
L0002805	0	0.17860E-06	377410.6	3747422.3	19.6	3.50	4.00	5.10	YES	
L0002806	0	0.17860E-06	377419.2	3747422.4	19.7	3.50	4.00	5.10	YES	
L0002807	0	0.17860E-06	377427.8	3747422.4	19.7	3.50	4.00	5.10	YES	
L0002808	0	0.17860E-06	377436.4	3747422.5	19.8	3.50	4.00	5.10	YES	
L0002809	0	0.17860E-06	377445.0	3747422.6	19.8	3.50	4.00	5.10	YES	
L0002810	0	0.17860E-06	377453.6	3747422.6	19.9	3.50	4.00	5.10	YES	
L0002811	0	0.17860E-06	377462.1	3747422.7	19.9	3.50	4.00	5.10	YES	
L0002812	0	0.17860E-06	377470.7	3747422.7	20.0	3.50	4.00	5.10	YES	
L0002813	0	0.17860E-06	377479.3	3747422.8	20.1	3.50	4.00	5.10	YES	
L0002814	0	0.17860E-06	377487.9	3747422.8	20.1	3.50	4.00	5.10	YES	
L0002815	0	0.17860E-06	377496.5	3747422.9	20.2	3.50	4.00	5.10	YES	
L0002816	0	0.17860E-06	377505.1	3747423.0	20.2	3.50	4.00	5.10	YES	
L0002817	0	0.17860E-06	377513.7	3747423.0	20.2	3.50	4.00	5.10	YES	
L0002818	0	0.17860E-06	377522.3	3747423.1	20.3	3.50	4.00	5.10	YES	
L0002819	0	0.17860E-06	377530.9	3747423.1	20.4	3.50	4.00	5.10	YES	
L0002820	0	0.17860E-06	377539.5	3747423.2	20.5	3.50	4.00	5.10	YES	
L0002821	0	0.17860E-06	377548.1	3747423.3	20.6	3.50	4.00	5.10	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002479 , L0002480 ,
	L0002481 , L0002482 , L0002483 , L0002484 , L0002485 , L0002486 , L0002487 , L0002488 ,
	L0002489 , L0002490 , L0002491 , L0002492 , L0002493 , L0002494 , L0002495 , L0002496 ,
	L0002497 , L0002498 , L0002499 , L0002500 , L0002501 , L0002502 , L0002503 , L0002504 ,
	L0002505 , L0002506 , L0002507 , L0002508 , L0002509 , L0002510 , L0002511 , L0002512 ,
	L0002513 , L0002514 , L0002515 , L0002516 , L0002517 , L0002518 , L0002519 , L0002520 ,
	L0002521 , L0002522 , L0002523 , L0002524 , L0002525 , L0002526 , L0002527 , L0002528 ,
	L0002529 , L0002530 , L0002531 , L0002532 , L0002533 , L0002534 , L0002535 , L0002536 ,
	L0002537 , L0002538 , L0002539 , L0002540 , L0002541 , L0002542 , L0002543 , L0002544 ,
	L0002545 , L0002546 , L0002547 , L0002548 , L0002549 , L0002550 , L0002551 , L0002552 ,
	L0002553 , L0002554 , L0002555 , L0002556 , L0002557 , L0002558 , L0002559 , L0002560 ,
	L0002561 , L0002562 , L0002563 , L0002564 , L0002565 , L0002566 , L0002567 , L0002568 ,
	L0002569 , L0002570 , L0002571 , L0002572 , L0002573 , L0002574 , L0002575 , L0002576 ,
	L0002577 , L0002578 , L0002579 , L0002580 , L0002581 , L0002582 , L0002583 , L0002584 ,
	L0002585 , L0002586 , L0002587 , L0002588 , L0002589 , L0002590 , L0002591 , L0002592 ,
	L0002593 , L0002594 , L0002595 , L0002596 , L0002597 , L0002598 , L0002599 , L0002600 ,
	L0002601 , L0002602 , L0002603 , L0002604 , L0002605 , L0002606 , L0002607 , L0002608 ,
	L0002609 , L0002610 , L0002611 , L0002612 , L0002613 , L0002614 , L0002615 , L0002616 ,
	L0002617 , L0002618 , L0002619 , L0002620 , L0002621 , L0002622 , L0002623 , L0002624 ,
	L0002625 , L0002626 , L0002627 , L0002628 , L0002629 , L0002630 , L0002631 , L0002632 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID — SOURCE IDs

L0002633 , L0002634 , L0002635 , L0002636 , L0002637 , L0002638 , L0002639 , L0002640 ,
L0002641 , L0002642 , L0002643 , L0002644 , L0002645 , L0002646 , L0002647 , L0002648 ,
L0002649 , L0002650 , L0002651 , L0002652 , L0002653 , L0002654 , L0002655 , L0002656 ,
L0002657 , L0002658 , L0002659 , L0002660 , L0002661 , L0002662 , L0002663 , L0002664 ,
L0002665 , L0002666 , L0002667 , L0002668 , L0002669 , L0002670 , L0002671 , L0002672 ,
L0002673 , L0002674 , L0002675 , L0002676 , L0002677 , L0002678 , L0002679 , L0002680 ,
L0002681 , L0002682 , L0002683 , L0002684 , L0002685 , L0002686 , L0002687 , L0002688 ,
L0002689 , L0002690 , L0002691 , L0002692 , L0002693 , L0002694 , L0002695 , L0002696 ,
L0002697 , L0002698 , L0002699 , L0002700 , L0002701 , L0002702 , L0002703 , L0002704 ,
L0002705 , L0002706 , L0002707 , L0002708 , L0002709 , L0002710 , L0002711 , L0002712 ,
L0002713 , L0002714 , L0002715 , L0002716 , L0002717 , L0002718 , L0002719 , L0002720 ,
L0002721 , L0002722 , L0002723 , L0002724 , L0002725 , L0002726 , L0002727 , L0002728 ,
L0002729 , L0002730 , L0002731 , L0002732 , L0002733 , L0002734 , L0002735 , L0002736 ,
L0002737 , L0002738 , L0002739 , L0002740 , L0002741 , L0002742 , L0002743 , L0002744 ,
L0002745 , L0002746 , L0002747 , L0002748 , L0002749 , L0002750 , L0002751 , L0002752 ,
L0002753 , L0002754 , L0002755 , L0002756 , L0002757 , L0002758 , L0002759 , L0002760 ,
L0002761 , L0002762 , L0002763 , L0002764 , L0002765 , L0002766 , L0002767 , L0002768 ,
L0002769 , L0002770 , L0002771 , L0002772 , L0002773 , L0002774 , L0002775 , L0002776 ,
L0002777 , L0002778 , L0002779 , L0002780 , L0002781 , L0002782 , L0002783 , L0002784 ,
L0002785 , L0002786 , L0002787 , L0002788 , L0002789 , L0002790 , L0002791 , L0002792 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0002793 , L0002794 , L0002795 , L0002796 , L0002797 , L0002798 , L0002799 , L0002800 ,
	L0002801 , L0002802 , L0002803 , L0002804 , L0002805 , L0002806 , L0002807 , L0002808 ,
	L0002809 , L0002810 , L0002811 , L0002812 , L0002813 , L0002814 , L0002815 , L0002816 ,
	L0002817 , L0002818 , L0002819 , L0002820 , L0002821 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002479 , L0002480 ,
		L0002481 , L0002482 , L0002483 , L0002484 , L0002485 , L0002486 , L0002487 , L0002488 ,
		L0002489 , L0002490 , L0002491 , L0002492 , L0002493 , L0002494 , L0002495 , L0002496 ,
		L0002497 , L0002498 , L0002499 , L0002500 , L0002501 , L0002502 , L0002503 , L0002504 ,
		L0002505 , L0002506 , L0002507 , L0002508 , L0002509 , L0002510 , L0002511 , L0002512 ,
		L0002513 , L0002514 , L0002515 , L0002516 , L0002517 , L0002518 , L0002519 , L0002520 ,
		L0002521 , L0002522 , L0002523 , L0002524 , L0002525 , L0002526 , L0002527 , L0002528 ,
		L0002529 , L0002530 , L0002531 , L0002532 , L0002533 , L0002534 , L0002535 , L0002536 ,
		L0002537 , L0002538 , L0002539 , L0002540 , L0002541 , L0002542 , L0002543 , L0002544 ,

L0002545 , L0002546 , L0002547 , L0002548 , L0002549 , L0002550 , L0002551 , L0002552 ,

L0002553 , L0002554 , L0002555 , L0002556 , L0002557 , L0002558 , L0002559 , L0002560 ,

L0002561 , L0002562 , L0002563 , L0002564 , L0002565 , L0002566 , L0002567 , L0002568 ,

L0002569 , L0002570 , L0002571 , L0002572 , L0002573 , L0002574 , L0002575 , L0002576 ,

L0002577 , L0002578 , L0002579 , L0002580 , L0002581 , L0002582 , L0002583 , L0002584 ,

L0002585 , L0002586 , L0002587 , L0002588 , L0002589 , L0002590 , L0002591 , L0002592 ,

L0002593 , L0002594 , L0002595 , L0002596 , L0002597 , L0002598 , L0002599 , L0002600 ,

L0002601 , L0002602 , L0002603 , L0002604 , L0002605 , L0002606 , L0002607 , L0002608 ,

L0002609 , L0002610 , L0002611 , L0002612 , L0002613 , L0002614 , L0002615 , L0002616 ,

L0002617 , L0002618 , L0002619 , L0002620 , L0002621 , L0002622 , L0002623 , L0002624 ,

L0002625 , L0002626 , L0002627 , L0002628 , L0002629 , L0002630 , L0002631 , L0002632 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0002633 , L0002634 , L0002635 , L0002636 , L0002637 , L0002638 , L0002639 , L0002640 ,

L0002641 , L0002642 , L0002643 , L0002644 , L0002645 , L0002646 , L0002647 , L0002648 ,

L0002649 , L0002650 , L0002651 , L0002652 , L0002653 , L0002654 , L0002655 , L0002656 ,

L0002657 , L0002658 , L0002659 , L0002660 , L0002661 , L0002662 , L0002663 , L0002664 ,

L0002665 , L0002666 , L0002667 , L0002668 , L0002669 , L0002670 , L0002671 , L0002672 ,

L0002673 , L0002674 , L0002675 , L0002676 , L0002677 , L0002678 , L0002679 , L0002680 ,

L0002681 , L0002682 , L0002683 , L0002684 , L0002685 , L0002686 , L0002687 , L0002688 ,

L0002689 , L0002690 , L0002691 , L0002692 , L0002693 , L0002694 , L0002695 , L0002696 ,

L0002697 , L0002698 , L0002699 , L0002700 , L0002701 , L0002702 , L0002703 , L0002704 ,

L0002705 , L0002706 , L0002707 , L0002708 , L0002709 , L0002710 , L0002711 , L0002712 ,

L0002713 , L0002714 , L0002715 , L0002716 , L0002717 , L0002718 , L0002719 , L0002720 ,

L0002721 , L0002722 , L0002723 , L0002724 , L0002725 , L0002726 , L0002727 , L0002728 ,

L0002729 , L0002730 , L0002731 , L0002732 , L0002733 , L0002734 , L0002735 , L0002736 ,

L0002737 , L0002738 , L0002739 , L0002740 , L0002741 , L0002742 , L0002743 , L0002744 ,

L0002745 , L0002746 , L0002747 , L0002748 , L0002749 , L0002750 , L0002751 , L0002752 ,

L0002753 , L0002754 , L0002755 , L0002756 , L0002757 , L0002758 , L0002759 , L0002760 ,

L0002761 , L0002762 , L0002763 , L0002764 , L0002765 , L0002766 , L0002767 , L0002768 ,

L0002769 , L0002770 , L0002771 , L0002772 , L0002773 , L0002774 , L0002775 , L0002776 ,

L0002777 , L0002778 , L0002779 , L0002780 , L0002781 , L0002782 , L0002783 , L0002784 ,

L0002785 , L0002786 , L0002787 , L0002788 , L0002789 , L0002790 , L0002791 , L0002792 ,

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

URBAN ID	URBAN POP	SOURCE IDs

L0002793 , L0002794 , L0002795 , L0002796 , L0002797 , L0002798 , L0002799 , L0002800 ,

L0002801 , L0002802 , L0002803 , L0002804 , L0002805 , L0002806 , L0002807 , L0002808 ,

L0002809 , L0002810 , L0002811 , L0002812 , L0002813 , L0002814 , L0002815 , L0002816 ,

L0002817 , L0002818 , L0002819 , L0002820 , L0002821 ,

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-105.2,	-101.5,	2	11.0,	262.6,	195.6,	-105.3,	-106.1,
3	11.0,	259.9,	226.2,	-102.2,	-107.4,	4	11.0,	249.4,	249.9,	-96.0,	-105.5,
5	11.0,	231.3,	266.0,	-86.8,	-100.5,	6	11.0,	206.2,	274.0,	-75.0,	-92.3,
7	11.0,	174.8,	273.8,	-60.9,	-81.3,	8	11.0,	138.1,	265.2,	-45.0,	-67.9,
9	11.0,	117.9,	249.9,	-28.2,	-43.0,	10	11.0,	159.0,	257.2,	-27.1,	-25.7,
11	11.0,	195.6,	262.6,	-25.2,	-7.5,	12	11.0,	226.2,	259.9,	-22.5,	10.9,
13	11.0,	249.9,	249.4,	-19.2,	29.0,	14	11.0,	266.0,	231.3,	-15.2,	46.2,
15	11.0,	274.0,	206.2,	-10.8,	62.0,	16	11.0,	273.8,	174.8,	-6.0,	75.9,
17	11.0,	265.2,	138.1,	-1.1,	87.5,	18	11.0,	249.9,	117.9,	-15.9,	96.7,
19	11.0,	257.2,	159.0,	-53.8,	101.5,	20	11.0,	262.6,	195.6,	-90.2,	106.1,
21	11.0,	259.9,	226.2,	-124.0,	107.4,	22	11.0,	249.4,	249.9,	-153.9,	105.5,
23	11.0,	231.3,	266.0,	-179.2,	100.5,	24	11.0,	206.2,	274.0,	-199.0,	92.3,
25	11.0,	174.8,	273.8,	-212.8,	81.3,	26	11.0,	138.1,	265.2,	-220.1,	67.9,
27	11.0,	117.9,	249.9,	-221.7,	43.0,	28	11.0,	159.0,	257.2,	-230.1,	25.7,
29	11.0,	195.6,	262.6,	-237.4,	7.5,	30	11.0,	226.2,	259.9,	-237.4,	-10.9,
31	11.0,	249.9,	249.4,	-230.2,	-29.0,	32	11.0,	266.0,	231.3,	-216.1,	-46.2,
33	11.0,	274.0,	206.2,	-195.4,	-62.0,	34	11.0,	273.8,	174.8,	-168.7,	-75.9,
35	11.0,	265.2,	138.1,	-137.0,	-87.5,	36	11.0,	249.9,	117.9,	-102.0,	-96.7,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-113.9,	-56.6,	2	11.0,	262.6,	195.6,	-121.6,	-63.4,
3	11.0,	259.9,	226.2,	-125.7,	-68.2,	4	11.0,	249.4,	249.9,	-125.9,	-71.0,
5	11.0,	231.3,	266.0,	-122.3,	-71.6,	6	11.0,	206.2,	274.0,	-115.0,	-70.1,
7	11.0,	174.8,	273.8,	-104.1,	-66.4,	8	11.0,	138.1,	265.2,	-90.2,	-60.7,
9	11.0,	117.9,	249.9,	-73.9,	-43.8,	10	11.0,	159.0,	257.2,	-72.0,	-34.4,
11	11.0,	195.6,	262.6,	-67.9,	-23.9,	12	11.0,	226.2,	259.9,	-61.7,	-12.6,
13	11.0,	249.9,	249.4,	-53.7,	-1.0,	14	11.0,	266.0,	231.3,	-44.0,	10.7,
15	11.0,	274.0,	206.2,	-33.0,	22.1,	16	11.0,	273.8,	174.8,	-21.0,	32.7,
17	11.0,	265.2,	138.1,	-8.3,	42.4,	18	11.0,	249.9,	117.9,	-15.2,	51.0,
19	11.0,	257.2,	159.0,	-45.1,	56.6,	20	11.0,	262.6,	195.6,	-73.9,	63.4,
21	11.0,	259.9,	226.2,	-100.5,	68.2,	22	11.0,	249.4,	249.9,	-124.0,	71.0,
23	11.0,	231.3,	266.0,	-143.7,	71.6,	24	11.0,	206.2,	274.0,	-159.1,	70.1,
25	11.0,	174.8,	273.8,	-169.6,	66.4,	26	11.0,	138.1,	265.2,	-175.0,	60.7,
27	11.0,	117.9,	249.9,	-176.0,	43.8,	28	11.0,	159.0,	257.2,	-185.2,	34.4,
29	11.0,	195.6,	262.6,	-194.7,	23.9,	30	11.0,	226.2,	259.9,	-198.2,	12.6,
31	11.0,	249.9,	249.4,	-195.7,	1.0,	32	11.0,	266.0,	231.3,	-187.3,	-10.7,
33	11.0,	274.0,	206.2,	-173.2,	-22.1,	34	11.0,	273.8,	174.8,	-153.8,	-32.7,
35	11.0,	265.2,	138.1,	-129.8,	-42.4,	36	11.0,	249.9,	117.9,	-102.7,	-51.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-120.8,	-16.9,	2	11.0,	262.6,	195.6,	-135.3,	-25.5,
3	11.0,	259.9,	226.2,	-145.7,	-33.3,	4	11.0,	249.4,	249.9,	-151.7,	-40.0,
5	11.0,	231.3,	266.0,	-153.1,	-45.6,	6	11.0,	206.2,	274.0,	-149.8,	-49.8,
7	11.0,	174.8,	273.8,	-142.0,	-52.5,	8	11.0,	138.1,	265.2,	-129.8,	-53.6,

9	11.0,	117.9,	249.9,	-114.2,	-43.6,	10	11.0,	159.0,	257.2,	-111.7,	-41.2,
11	11.0,	195.6,	262.6,	-105.8,	-37.5,	12	11.0,	226.2,	259.9,	-96.7,	-32.6,
13	11.0,	249.9,	249.4,	-84.6,	-26.8,	14	11.0,	266.0,	231.3,	-70.0,	-20.1,
15	11.0,	274.0,	206.2,	-53.3,	-12.8,	16	11.0,	273.8,	174.8,	-34.9,	-5.1,
17	11.0,	265.2,	138.1,	-15.5,	2.8,	18	11.0,	249.9,	117.9,	-15.3,	10.7,
19	11.0,	257.2,	159.0,	-38.3,	16.9,	20	11.0,	262.6,	195.6,	-60.3,	25.5,
21	11.0,	259.9,	226.2,	-80.5,	33.3,	22	11.0,	249.4,	249.9,	-98.2,	40.0,
23	11.0,	231.3,	266.0,	-112.9,	45.6,	24	11.0,	206.2,	274.0,	-124.2,	49.8,
25	11.0,	174.8,	273.8,	-131.8,	52.5,	26	11.0,	138.1,	265.2,	-135.3,	53.6,
27	11.0,	117.9,	249.9,	-135.7,	43.6,	28	11.0,	159.0,	257.2,	-145.5,	41.2,
29	11.0,	195.6,	262.6,	-156.7,	37.5,	30	11.0,	226.2,	259.9,	-163.2,	32.6,
31	11.0,	249.9,	249.4,	-164.8,	26.8,	32	11.0,	266.0,	231.3,	-161.3,	20.1,
33	11.0,	274.0,	206.2,	-152.9,	12.8,	34	11.0,	273.8,	174.8,	-139.9,	5.1,
35	11.0,	265.2,	138.1,	-122.6,	-2.8,	36	11.0,	249.9,	117.9,	-102.6,	-10.7,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-125.9,	12.4,	2	11.0,	262.6,	195.6,	-145.4,	2.4,
3	11.0,	259.9,	226.2,	-160.5,	-7.5,	4	11.0,	249.4,	249.9,	-170.8,	-17.3,
5	11.0,	231.3,	266.0,	-175.8,	-26.5,	6	11.0,	206.2,	274.0,	-175.5,	-35.0,
7	11.0,	174.8,	273.8,	-169.9,	-42.3,	8	11.0,	138.1,	265.2,	-159.1,	-48.4,
9	11.0,	117.9,	249.9,	-143.9,	-43.6,	10	11.0,	159.0,	257.2,	-141.0,	-46.4,
11	11.0,	195.6,	262.6,	-133.7,	-47.7,	12	11.0,	226.2,	259.9,	-122.4,	-47.5,
13	11.0,	249.9,	249.4,	-107.4,	-45.8,	14	11.0,	266.0,	231.3,	-89.1,	-42.8,
15	11.0,	274.0,	206.2,	-68.1,	-38.5,	16	11.0,	273.8,	174.8,	-45.1,	-33.0,
17	11.0,	265.2,	138.1,	-20.6,	-26.5,	18	11.0,	249.9,	117.9,	-15.3,	-18.9,
19	11.0,	257.2,	159.0,	-33.1,	-12.4,	20	11.0,	262.6,	195.6,	-50.1,	-2.4,
21	11.0,	259.9,	226.2,	-65.6,	7.5,	22	11.0,	249.4,	249.9,	-79.1,	17.3,
23	11.0,	231.3,	266.0,	-90.2,	26.5,	24	11.0,	206.2,	274.0,	-98.5,	35.0,
25	11.0,	174.8,	273.8,	-103.9,	42.3,	26	11.0,	138.1,	265.2,	-106.1,	48.4,
27	11.0,	117.9,	249.9,	-106.0,	43.6,	28	11.0,	159.0,	257.2,	-116.2,	46.4,
29	11.0,	195.6,	262.6,	-128.8,	47.7,	30	11.0,	226.2,	259.9,	-137.5,	47.5,
31	11.0,	249.9,	249.4,	-142.0,	45.8,	32	11.0,	266.0,	231.3,	-142.2,	42.8,
33	11.0,	274.0,	206.2,	-138.1,	38.5,	34	11.0,	273.8,	174.8,	-129.7,	33.0,
35	11.0,	265.2,	138.1,	-117.5,	26.5,	36	11.0,	249.9,	117.9,	-102.6,	18.9,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-132.3,	41.9,	2	11.0,	262.6,	195.6,	-156.9,	30.5,
3	11.0,	259.9,	226.2,	-176.7,	18.1,	4	11.0,	249.4,	249.9,	-191.1,	5.1,
5	11.0,	231.3,	266.0,	-199.7,	-8.0,	6	11.0,	206.2,	274.0,	-202.3,	-20.9,

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   7   11.0,  174.8,  273.8, -198.7,  -33.1,      8   11.0,  138.1,  265.2, -189.1,  -44.3,
   9   11.0,  117.9,  249.9, -174.2,  -44.8,     10   11.0,  159.0,  257.2, -170.5,  -52.8,
  11   11.0,  195.6,  262.6, -161.7,  -59.1,     12   11.0,  226.2,  259.9, -148.0,  -63.6,
  13   11.0,  249.9,  249.4, -129.8,  -66.2,     14   11.0,  266.0,  231.3, -107.6,  -66.7,
  15   11.0,  274.0,  206.2,  -82.2,  -65.3,     16   11.0,  273.8,  174.8,  -54.3,  -61.8,
  17   11.0,  265.2,  138.1,  -24.7,  -56.5,     18   11.0,  249.9,  117.9,  -14.2,  -49.2,
  19   11.0,  257.2,  159.0,  -26.7,  -41.9,     20   11.0,  262.6,  195.6,  -38.7,  -30.5,
  21   11.0,  259.9,  226.2,  -49.5,  -18.1,     22   11.0,  249.4,  249.9,  -58.8,   -5.1,
  23   11.0,  231.3,  266.0,  -66.3,    8.0,     24   11.0,  206.2,  274.0,  -71.8,   20.9,
  25   11.0,  174.8,  273.8,  -75.1,   33.1,     26   11.0,  138.1,  265.2,  -76.1,   44.3,
  27   11.0,  117.9,  249.9,  -75.8,   44.8,     28   11.0,  159.0,  257.2,  -86.7,   52.8,
  29   11.0,  195.6,  262.6, -100.8,   59.1,     30   11.0,  226.2,  259.9, -111.9,   63.6,
  31   11.0,  249.9,  249.4, -119.6,   66.2,     32   11.0,  266.0,  231.3, -123.6,   66.7,
  33   11.0,  274.0,  206.2, -124.0,   65.3,     34   11.0,  273.8,  174.8, -120.5,   61.8,
  35   11.0,  265.2,  138.1, -113.4,   56.5,     36   11.0,  249.9,  117.9, -103.7,   49.2,


SOURCE ID: STCK6
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ    YADJ
   1   11.0,  257.2,  159.0, -136.6,   73.5,      2   11.0,  262.6,  195.6, -166.5,   60.8,
   3   11.0,  259.9,  226.2, -191.5,   46.3,      4   11.0,  249.4,  249.9, -210.6,   30.4,
   5   11.0,  231.3,  266.0, -223.3,   13.5,      6   11.0,  206.2,  274.0, -229.2,   -3.8,
   7   11.0,  174.8,  273.8, -228.2,  -21.0,      8   11.0,  138.1,  265.2, -220.2,  -37.5,
   9   11.0,  117.9,  249.9, -206.0,  -43.5,     10   11.0,  159.0,  257.2, -202.1,  -57.0,
  11   11.0,  195.6,  262.6, -192.1,  -68.8,     12   11.0,  226.2,  259.9, -176.3,  -78.4,
  13   11.0,  249.9,  249.4, -155.1,  -85.6,     14   11.0,  266.0,  231.3, -129.1,  -90.3,
  15   11.0,  274.0,  206.2,  -99.3,  -92.2,     16   11.0,  273.8,  174.8,  -66.4,  -91.3,
  17   11.0,  265.2,  138.1,  -31.6,  -87.6,     18   11.0,  249.9,  117.9,  -15.5,  -81.0,
  19   11.0,  257.2,  159.0,  -22.5,  -73.5,     20   11.0,  262.6,  195.6,  -29.0,  -60.8,
  21   11.0,  259.9,  226.2,  -34.7,  -46.3,     22   11.0,  249.4,  249.9,  -39.3,  -30.4,
  23   11.0,  231.3,  266.0,  -42.7,  -13.5,     24   11.0,  206.2,  274.0,  -44.8,    3.8,
  25   11.0,  174.8,  273.8,  -45.6,   21.0,     26   11.0,  138.1,  265.2,  -45.0,   37.5,
  27   11.0,  117.9,  249.9,  -43.9,   43.5,     28   11.0,  159.0,  257.2,  -55.1,   57.0,
  29   11.0,  195.6,  262.6,  -70.4,   68.8,     30   11.0,  226.2,  259.9,  -83.7,   78.4,
  31   11.0,  249.9,  249.4,  -94.4,   85.6,     32   11.0,  266.0,  231.3, -102.2,   90.3,
  33   11.0,  274.0,  206.2, -106.9,   92.2,     34   11.0,  273.8,  174.8, -108.4,   91.3,
  35   11.0,  265.2,  138.1, -106.5,   87.6,     36   11.0,  249.9,  117.9, -102.4,   81.0,


*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                  ***        08:39:57
                                                                                                              PAGE  20
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

376999.0, 377086.3, 377173.6, 377260.9, 377348.2, 377435.5, 377522.8, 377610.1, 377697.4, 377784.7,
377872.0, 377959.3, 378046.6, 378133.9, 378221.2, 378308.5, 378395.8, 378483.1, 378570.4, 378657.7,
378745.0,

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

3746986.6, 3747043.0, 3747099.4, 3747155.8, 3747212.2, 3747268.5, 3747324.9, 3747381.3, 3747437.7, 3747494.1,
3747550.4, 3747606.8, 3747663.2, 3747719.6, 3747776.0, 3747832.3, 3747888.7, 3747945.1, 3748001.5, 3748057.9,
3748114.2,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	376998.97	377086.27	377173.57	377260.87	377348.17	377435.47	377522.77	377610.07	377697.37
3748114.24	18.30	18.50	19.10	19.90	20.30	20.10	19.80	19.60	19.40
3748057.86	25.50	18.60	18.90	19.10	19.50	19.60	19.70	19.70	19.60
3748001.48	19.20	25.90	25.00	19.80	20.00	20.80	20.10	19.90	20.10
3747945.10	18.10	19.60	25.20	26.60	23.40	22.60	20.00	20.10	20.10
3747888.72	18.30	18.60	21.80	20.80	23.70	25.60	21.70	19.80	19.80
3747832.34	18.40	18.70	20.00	20.80	20.80	20.60	23.60	23.50	19.90
3747775.96	18.40	18.70	19.50	21.00	20.70	19.90	19.90	19.80	22.80
3747719.58	18.60	19.10	19.80	20.70	20.80	20.50	20.30	19.90	19.20
3747663.20	18.50	18.80	19.20	20.20	20.50	20.70	19.80	19.70	19.20
3747606.82	18.50	18.70	19.10	19.40	20.00	20.40	19.70	19.60	19.30
3747550.44	18.40	18.50	18.60	18.50	19.80	20.20	19.70	19.70	19.60
3747494.06	18.40	18.40	18.30	18.20	19.90	20.20	19.60	19.80	19.80
3747437.68	18.70	18.60	18.40	18.50	19.20	19.90	19.90	20.00	19.80
3747381.30	18.90	18.50	18.20	18.60	19.00	19.60	20.40	20.20	19.60
3747324.92	19.30	18.60	18.00	18.30	18.90	19.30	20.40	19.70	19.60
3747268.54	18.90	18.50	18.00	17.80	18.50	19.30	19.60	19.50	19.20
3747212.16	19.20	19.10	18.40	18.20	19.50	20.00	20.00	19.20	18.50
3747155.78	19.50	19.50	19.60	19.70	22.00	21.80	21.10	21.90	19.80
3747099.40	18.90	18.80	19.90	20.20	21.90	21.80	21.40	21.90	21.30
3747043.02	18.60	18.40	20.30	20.10	20.70	20.70	20.90	20.80	21.30
3746986.64	19.40	18.30	20.10	19.90	13.80	13.50	20.90	20.60	20.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	19.20	19.10	18.90	18.80	18.70	18.70	18.20	17.60	17.60
3748057.86	19.60	19.50	19.40	19.20	18.90	18.60	18.30	18.00	17.80
3748001.48	19.90	19.50	19.50	19.80	19.20	18.80	18.70	18.30	18.00
3747945.10	19.60	19.20	19.40	20.10	19.10	19.00	18.90	18.50	18.10
3747888.72	19.20	19.10	19.20	20.10	19.60	19.40	19.00	18.60	18.30
3747832.34	19.10	19.00	19.60	19.90	19.90	19.30	19.30	19.20	18.90
3747775.96	22.70	19.10	19.40	19.60	20.10	19.50	19.20	18.80	18.60
3747719.58	19.90	24.00	23.10	20.00	20.10	19.50	19.30	19.00	18.60
3747663.20	19.10	19.40	22.60	25.80	21.30	19.40	19.20	18.80	18.50
3747606.82	19.60	19.30	19.50	20.30	23.70	25.00	19.90	18.80	18.80
3747550.44	19.70	19.30	19.20	19.50	19.90	19.90	24.50	22.10	18.80
3747494.06	19.50	19.30	19.10	19.50	20.00	19.20	20.00	20.60	22.40
3747437.68	19.50	18.90	18.60	19.30	19.90	20.00	20.10	20.00	20.10
3747381.30	19.40	19.00	18.80	19.10	20.10	20.10	20.10	19.70	19.90
3747324.92	19.40	19.30	19.50	19.70	20.00	20.10	19.90	19.60	19.70
3747268.54	19.10	18.90	19.60	19.70	20.00	20.10	19.80	19.40	19.60
3747212.16	18.10	18.70	19.30	19.70	20.20	20.10	19.80	19.50	19.10
3747155.78	17.40	22.30	22.60	23.40	20.30	20.40	20.40	20.90	20.10
3747099.40	17.60	20.00	20.30	23.20	20.10	20.50	20.60	20.10	20.00
3747043.02	17.70	17.40	18.60	23.30	19.60	20.00	19.80	20.30	20.40
3746986.64	17.60	16.20	19.00	22.70	19.60	19.70	20.00	19.90	20.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	16.40	16.00	16.70
3748057.86	17.10	17.30	17.10
3748001.48	17.70	17.20	17.20
3747945.10	17.60	17.40	17.40
3747888.72	18.10	17.40	17.50
3747832.34	17.90	17.50	17.40
3747775.96	17.90	17.60	17.30
3747719.58	18.00	17.70	17.50

3747663.20	18.10	17.70	17.80
3747606.82	18.20	17.80	17.90
3747550.44	18.20	18.00	17.90
3747494.06	19.90	18.50	18.30
3747437.68	21.40	22.40	20.70
3747381.30	20.10	21.00	22.10
3747324.92	19.80	19.20	18.50
3747268.54	19.20	19.00	18.70
3747212.16	18.80	18.60	18.40
3747155.78	19.20	19.40	19.10
3747099.40	18.90	19.30	19.00
3747043.02	19.20	19.20	18.60
3746986.64	20.00	20.00	18.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 376998.97	377086.27	377173.57	377260.87	377348.17	377435.47	377522.77	377610.07	377697.37
3748114.24	25.50	18.50	19.10	19.90	20.30	20.10	19.80	19.60	19.40
3748057.86	25.50	26.00	26.20	19.10	19.50	19.60	19.70	19.70	19.60
3748001.48	25.70	25.90	26.20	26.60	20.00	20.80	20.10	19.90	20.10
3747945.10	25.50	26.20	25.20	26.60	26.50	22.60	20.00	20.10	20.10
3747888.72	18.30	24.40	21.80	26.60	26.50	25.60	24.80	19.80	19.80
3747832.34	18.40	18.70	20.00	20.80	20.80	25.50	23.60	23.50	19.90
3747775.96	18.40	18.70	19.50	21.00	20.70	19.90	19.90	23.50	22.80
3747719.58	18.60	19.10	19.80	20.70	20.80	20.50	20.30	19.90	19.20
3747663.20	18.50	18.80	19.20	20.20	20.50	20.70	19.80	19.70	19.20
3747606.82	18.50	18.70	19.10	19.40	20.00	20.40	19.70	19.60	19.30
3747550.44	18.40	18.50	18.60	18.50	19.80	20.20	19.70	19.70	19.60
3747494.06	18.40	18.40	18.30	18.20	19.90	20.20	19.60	19.80	19.80
3747437.68	18.70	18.60	18.40	18.50	19.20	19.90	19.90	20.00	19.80
3747381.30	18.90	18.50	18.20	18.60	19.00	19.60	20.40	20.20	19.60
3747324.92	19.30	18.60	18.00	18.30	18.90	19.30	20.40	19.70	19.60
3747268.54	18.90	18.50	18.00	17.80	18.50	19.30	19.60	19.50	19.20
3747212.16	19.20	19.10	18.40	18.20	19.50	20.00	20.00	19.20	18.50
3747155.78	19.50	19.50	19.60	19.70	22.00	21.80	21.10	21.90	19.80
3747099.40	18.90	18.80	19.90	20.20	21.90	21.80	21.40	21.90	21.30
3747043.02	18.60	18.40	20.30	20.10	20.70	20.70	20.90	20.80	21.30
3746986.64	19.40	18.30	20.10	19.90	20.60	21.70	20.90	20.60	20.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	19.20	19.10	18.90	18.80	18.70	18.70	18.20	17.60	17.60
3748057.86	19.60	19.50	19.40	19.20	18.90	18.60	18.30	18.00	17.80
3748001.48	19.90	19.50	19.50	19.80	19.20	18.80	18.70	18.30	18.00
3747945.10	19.60	19.20	19.40	20.10	19.10	19.00	18.90	18.50	18.10
3747888.72	19.20	19.10	19.20	20.10	19.60	19.40	19.00	18.60	18.30
3747832.34	19.10	19.00	19.60	19.90	19.90	19.30	19.30	19.20	18.90
3747775.96	23.10	24.00	19.40	19.60	20.10	19.50	19.20	18.80	18.60
3747719.58	23.40	24.00	24.90	26.00	20.10	19.50	19.30	19.00	18.60
3747663.20	19.10	24.50	25.30	25.80	24.70	25.90	19.20	18.80	18.50
3747606.82	19.60	19.30	19.50	26.20	26.20	25.00	25.10	18.80	18.80
3747550.44	19.70	19.30	19.20	19.50	25.50	25.80	24.50	22.10	22.20
3747494.06	19.50	19.30	19.10	19.50	20.00	19.20	20.00	23.90	22.40
3747437.68	19.50	18.90	18.60	19.30	19.90	20.00	20.10	20.00	20.10
3747381.30	19.40	19.00	18.80	19.10	20.10	20.10	20.10	19.70	19.90
3747324.92	19.40	19.30	19.50	19.70	20.00	20.10	19.90	19.60	19.70
3747268.54	19.10	18.90	19.60	19.70	20.00	20.10	19.80	19.40	19.60
3747212.16	18.10	24.50	19.30	22.80	20.20	20.10	19.80	19.50	19.10
3747155.78	24.30	24.50	22.60	23.40	20.30	20.40	20.40	20.90	20.10
3747099.40	24.30	24.30	20.30	23.20	20.10	20.50	20.60	20.10	20.00
3747043.02	24.30	17.40	18.60	23.30	19.60	20.00	19.80	20.30	20.40
3746986.64	22.90	21.40	19.00	22.70	19.60	19.70	20.00	19.90	20.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	16.40	16.00	16.70
3748057.86	17.10	17.30	17.10
3748001.48	17.70	17.20	17.20
3747945.10	17.60	17.40	17.40
3747888.72	18.10	17.40	17.50

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 3747832.34 |         17.90        17.50        17.40
 3747775.96 |         17.90        17.60        17.30
 3747719.58 |         18.00        17.70        17.50
 3747663.20 |         18.10        17.70        17.80
 3747606.82 |         18.20        17.80        17.90
 3747550.44 |         18.20        18.00        17.90
 3747494.06 |         19.90        18.50        18.30
 3747437.68 |         21.40        22.40        23.30
 3747381.30 |         20.10        21.00        24.00
 3747324.92 |         19.80        19.20        18.50
 3747268.54 |         19.20        19.00        18.70
 3747212.16 |         18.80        18.60        18.40
 3747155.78 |         19.20        19.40        19.10
 3747099.40 |         18.90        19.30        19.00
 3747043.02 |         19.20        19.20        18.60
 3746986.64 |         20.00        20.00        18.90

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                  ***        08:39:57
                                                                                                              PAGE  27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

    ( 377146.6, 3747291.4,      18.2,      18.2,       0.0);        ( 377230.5, 3747442.5,      18.1,      18.1,       0.0);
    ( 377253.4, 3747498.1,      18.2,      18.2,       0.0);        ( 377259.3, 3747543.7,      18.5,      18.5,       0.0);
    ( 377259.3, 3747621.9,      19.6,      19.6,       0.0);        ( 377260.6, 3747704.7,      20.6,      20.6,       0.0);
    ( 378132.2, 3747267.4,      20.0,      20.0,       0.0);        ( 378294.5, 3747265.7,      19.8,      19.8,       0.0);

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                  ***        08:39:57
                                                                                                              PAGE  28
*** 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          - - RECEPTOR LOCATION - -         DISTANCE
                            ID            XR (METERS)   YR (METERS)        (METERS)
                        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                         L0002545            377260.9     3747437.7           -4.03

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                  ***        08:39:57
                                                                                                              PAGE  29
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC Met Version: 16216
Profile file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3167 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	283.8	2.0
12	01	01	1	02	-2.1	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	305.	7.9	283.1	2.0
12	01	01	1	03	-9.0	0.127	-9.000	-9.000	-999.	109.	20.8	0.24	2.79	1.00	1.18	323.	7.9	282.5	2.0
12	01	01	1	04	-2.2	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	296.	7.9	282.0	2.0
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	06	-6.0	0.103	-9.000	-9.000	-999.	80.	16.7	0.24	2.79	1.00	0.97	321.	7.9	281.4	2.0
12	01	01	1	07	-4.3	0.088	-9.000	-9.000	-999.	63.	14.4	0.24	2.79	1.00	0.82	313.	7.9	280.4	2.0
12	01	01	1	08	15.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	0.55	0.00	0.	7.9	281.4	2.0
12	01	01	1	09	35.7	0.115	0.353	0.013	45.	93.	-3.8	0.24	2.79	0.32	0.63	179.	7.9	285.4	2.0
12	01	01	1	10	109.0	0.141	0.727	0.009	128.	127.	-2.3	0.24	2.79	0.24	0.70	170.	7.9	289.2	2.0
12	01	01	1	11	164.4	0.149	1.186	0.005	370.	138.	-1.8	0.24	2.79	0.21	0.70	222.	7.9	297.0	2.0
12	01	01	1	12	191.7	0.163	1.525	0.005	672.	158.	-2.1	0.24	2.79	0.20	0.79	12.	7.9	299.9	2.0

```
12 01 01   1 13  191.3  0.170  1.819  0.005 1144.  168.     -2.3  0.24   2.79   0.20    0.84  260.    7.9  300.9    2.0
12 01 01   1 14  161.6  0.344  1.852  0.005 1428.  483.    -22.7  0.24   2.79   0.21    2.49  260.    7.9  298.8    2.0
12 01 01   1 15  105.0  0.367  1.638  0.005 1521.  534.    -42.8  0.24   2.79   0.24    2.84  292.    7.9  293.8    2.0
12 01 01   1 16   29.7  0.383  1.079  0.005 1539.  570.   -172.5  0.24   2.79   0.33    3.22  276.    7.9  290.4    2.0
12 01 01   1 17  -24.8  0.287 -9.000 -9.000 -999.  374.     90.3  0.24   2.79   0.59    2.52  284.    7.9  289.2    2.0
12 01 01   1 18  -26.7  0.269 -9.000 -9.000 -999.  336.     79.8  0.24   2.79   1.00    2.38  285.    7.9  287.5    2.0
12 01 01   1 19  -10.2  0.137 -9.000 -9.000 -999.  133.     22.7  0.24   2.79   1.00    1.26  287.    7.9  287.5    2.0
12 01 01   1 20   -6.2  0.106 -9.000 -9.000 -999.   83.     17.2  0.24   2.79   1.00    0.99  303.    7.9  287.0    2.0
12 01 01   1 21   -7.6  0.117 -9.000 -9.000 -999.   96.     19.1  0.24   2.79   1.00    1.09  326.    7.9  286.4    2.0
12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00   283.8   99.0  -99.00  -99.00

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

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 1st 14 YR                                        ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2027-2040                                        ***        08:39:57
                                                                                                                  PAGE  31
*** 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       , STCK5       ,
               STCK6       , L0002479    , L0002480    , L0002481    , L0002482    , L0002483    , L0002484    , L0002485    ,
               L0002486    , L0002487    , L0002488    , L0002489    , L0002490    , L0002491    , L0002492    , L0002493    ,
               L0002494    , L0002495    , L0002496    , L0002497    , L0002498    , L0002499    , L0002500    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |    376998.97    377086.27    377173.57    377260.87    377348.17    377435.47    377522.77    377610.07    377697.37
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00010      0.00011      0.00011      0.00012      0.00012      0.00013      0.00013      0.00012      0.00012
 3748057.86 |       0.00009      0.00012      0.00013      0.00014      0.00015      0.00015      0.00015      0.00014      0.00014
 3748001.48 |       0.00012      0.00011      0.00013      0.00017      0.00017      0.00017      0.00017      0.00017      0.00016
 3747945.10 |       0.00014      0.00016      0.00015      0.00016      0.00019      0.00019      0.00021      0.00020      0.00019
 3747888.72 |       0.00016      0.00019      0.00021      0.00025      0.00023      0.00021      0.00023      0.00024      0.00022
 3747832.34 |       0.00018      0.00022      0.00026      0.00036      0.00035      0.00031      0.00026      0.00026      0.00027
 3747775.96 |       0.00020      0.00025      0.00032      0.00049      0.00046      0.00039      0.00037      0.00035      0.00030
 3747719.58 |       0.00023      0.00029      0.00038      0.00057      0.00056      0.00048      0.00046      0.00044      0.00040
 3747663.20 |       0.00026      0.00033      0.00044      0.00068      0.00069      0.00061      0.00059      0.00056      0.00051
 3747606.82 |       0.00029      0.00038      0.00052      0.00081      0.00088      0.00082      0.00079      0.00074      0.00068
 3747550.44 |       0.00032      0.00043      0.00061      0.00097      0.00117      0.00122      0.00115      0.00105      0.00092
 3747494.06 |       0.00035      0.00048      0.00070      0.00125      0.00180      0.00187      0.00185      0.00161      0.00121
```

3747437.68	0.00037	0.00052	0.00079	0.00170	0.00292	0.00378	0.00384	0.00307	0.00140
3747381.30	0.00040	0.00054	0.00082	0.00170	0.00190	0.00326	0.00332	0.00270	0.00145
3747324.92	0.00043	0.00058	0.00084	0.00164	0.00162	0.00229	0.00204	0.00186	0.00129
3747268.54	0.00058	0.00072	0.00094	0.00146	0.00187	0.00193	0.00190	0.00180	0.00130
3747212.16	0.00051	0.00064	0.00081	0.00109	0.00155	0.00172	0.00170	0.00129	0.00104
3747155.78	0.00037	0.00048	0.00061	0.00078	0.00096	0.00116	0.00114	0.00091	0.00074
3747099.40	0.00031	0.00040	0.00050	0.00062	0.00075	0.00088	0.00088	0.00074	0.00060
3747043.02	0.00027	0.00034	0.00042	0.00052	0.00063	0.00073	0.00072	0.00063	0.00051
3746986.64	0.00023	0.00029	0.00035	0.00043	0.00051	0.00057	0.00059	0.00053	0.00044

*** 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 , STCK5 ,
STCK6 , L0002479 , L0002480 , L0002481 , L0002482 , L0002483 , L0002484 , L0002485 ,
L0002486 , L0002487 , L0002488 , L0002489 , L0002490 , L0002491 , L0002492 , L0002493 ,
L0002494 , L0002495 , L0002496 , L0002497 , L0002498 , L0002499 , L0002500 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	0.00011	0.00010	0.00010	0.00009	0.00009	0.00008	0.00007	0.00007	0.00007
3748057.86	0.00013	0.00012	0.00011	0.00010	0.00009	0.00009	0.00008	0.00008	0.00007
3748001.48	0.00015	0.00014	0.00013	0.00012	0.00011	0.00010	0.00009	0.00008	0.00008
3747945.10	0.00017	0.00016	0.00014	0.00013	0.00012	0.00011	0.00010	0.00009	0.00008
3747888.72	0.00020	0.00019	0.00017	0.00015	0.00013	0.00012	0.00011	0.00010	0.00009
3747832.34	0.00024	0.00022	0.00020	0.00017	0.00015	0.00013	0.00012	0.00011	0.00010
3747775.96	0.00028	0.00027	0.00023	0.00020	0.00017	0.00015	0.00013	0.00012	0.00010
3747719.58	0.00037	0.00032	0.00028	0.00024	0.00020	0.00017	0.00014	0.00013	0.00011
3747663.20	0.00047	0.00040	0.00033	0.00028	0.00023	0.00018	0.00016	0.00014	0.00012
3747606.82	0.00060	0.00049	0.00039	0.00031	0.00025	0.00021	0.00017	0.00015	0.00013
3747550.44	0.00075	0.00057	0.00043	0.00033	0.00026	0.00022	0.00019	0.00016	0.00014
3747494.06	0.00087	0.00063	0.00047	0.00036	0.00028	0.00023	0.00020	0.00017	0.00016
3747437.68	0.00092	0.00066	0.00050	0.00039	0.00031	0.00026	0.00022	0.00019	0.00017
3747381.30	0.00098	0.00071	0.00054	0.00043	0.00035	0.00029	0.00025	0.00022	0.00020
3747324.92	0.00099	0.00077	0.00061	0.00050	0.00042	0.00036	0.00032	0.00029	0.00027
3747268.54	0.00113	0.00100	0.00088	0.00079	0.00071	0.00066	0.00062	0.00060	0.00058
3747212.16	0.00090	0.00081	0.00072	0.00065	0.00059	0.00054	0.00051	0.00048	0.00046
3747155.78	0.00059	0.00050	0.00044	0.00039	0.00034	0.00030	0.00027	0.00025	0.00023
3747099.40	0.00048	0.00040	0.00034	0.00029	0.00026	0.00023	0.00020	0.00018	0.00017
3747043.02	0.00042	0.00034	0.00028	0.00024	0.00021	0.00018	0.00016	0.00015	0.00014
3746986.64	0.00036	0.00029	0.00024	0.00020	0.00018	0.00016	0.00014	0.00013	0.00012

*** 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 , STCK5 ,
STCK6 , L0002479 , L0002480 , L0002481 , L0002482 , L0002483 , L0002484 , L0002485 ,
L0002486 , L0002487 , L0002488 , L0002489 , L0002490 , L0002491 , L0002492 , L0002493 ,
L0002494 , L0002495 , L0002496 , L0002497 , L0002498 , L0002499 , L0002500 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 378570.37	378657.67	378744.97
3748114.24	0.00006	0.00006	0.00005
3748057.86	0.00007	0.00006	0.00006
3748001.48	0.00007	0.00007	0.00006
3747945.10	0.00008	0.00007	0.00006
3747888.72	0.00008	0.00007	0.00007
3747832.34	0.00009	0.00008	0.00007
3747775.96	0.00009	0.00008	0.00008
3747719.58	0.00010	0.00009	0.00008
3747663.20	0.00011	0.00009	0.00008
3747606.82	0.00011	0.00010	0.00009
3747550.44	0.00012	0.00011	0.00010
3747494.06	0.00013	0.00012	0.00010
3747437.68	0.00016	0.00014	0.00012
3747381.30	0.00018	0.00017	0.00014
3747324.92	0.00025	0.00023	0.00019
3747268.54	0.00056	0.00053	0.00045
3747212.16	0.00044	0.00042	0.00034
3747155.78	0.00022	0.00020	0.00016
3747099.40	0.00015	0.00014	0.00012
3747043.02	0.00012	0.00011	0.00010
3746986.64	0.00011	0.00009	0.00008

*** 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 , STCK5 ,
STCK6 , L0002479 , L0002480 , L0002481 , L0002482 , L0002483 , L0002484 , L0002485 ,
L0002486 , L0002487 , L0002488 , L0002489 , L0002490 , L0002491 , L0002492 , L0002493 ,
L0002494 , L0002495 , L0002496 , L0002497 , L0002498 , L0002499 , L0002500 , . . . ,

*** 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
377146.65	3747291.37	0.00077	377230.47	3747442.55	0.00116
377253.39	3747498.09	0.00114	377259.26	3747543.71	0.00099
377259.26	3747621.90	0.00076	377260.56	3747704.66	0.00060
378132.19	3747267.37	0.00073	378294.52	3747265.66	0.00067

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

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00384 AT (377522.77, 3747437.68, 19.90, 19.90, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00378 AT (377435.47, 3747437.68, 19.90, 19.90, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00332 AT (377522.77, 3747381.30, 20.40, 20.40, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00326 AT (377435.47, 3747381.30, 19.60, 19.60, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00307 AT (377610.07, 3747437.68, 20.00, 20.00, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00292 AT (377348.17, 3747437.68, 19.20, 19.20, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00270 AT (377610.07, 3747381.30, 20.20, 20.20, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00229 AT (377435.47, 3747324.92, 19.30, 19.30, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00204 AT (377522.77, 3747324.92, 20.40, 20.40, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00193 AT (377435.47, 3747268.54, 19.30, 19.30, 0.00)	GC	UCART1

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

*** Message Summary : AERMOD Model Execution ***

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

```
A Total of            0 Fatal Error Message(s)
A Total of            8 Warning Message(s)
A Total of         1474 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     480        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     481        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     482        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     483        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     484        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     485        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1075       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1075       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 8/29/2022
** File: C:\Lakes\AERMOD View\190th St Warehouse 2022 2nd 14YR\190th St Warehouse 2022 2nd 14YR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 190th St Warehouse 2nd 14 YR
   TITLETWO DPM concentrations 2041-2054
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County_Population
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "190th St Warehouse 2022 2nd 14YR.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      377355.844  3747399.960       19.110
** DESCRSRC Idling location
   LOCATION STCK2        POINT      377401.539  3747400.698       19.440
** DESCRSRC Idling location
   LOCATION STCK3        POINT      377441.836  3747400.553       19.670
** DESCRSRC Idling location
   LOCATION STCK4        POINT      377471.534  3747400.553       19.860
** DESCRSRC Idling location
   LOCATION STCK5        POINT      377501.780  3747401.729       20.220
** DESCRSRC Idling location
   LOCATION STCK6        POINT      377533.617  3747400.407       20.860
** DESCRSRC Idling location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
```

```
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Crenshaw Place n/o 190th St to Project Driveway 4
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.56E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 3
** 377297.362, 3747254.685, 17.80, 3.50, 4.00
** 377295.861, 3747414.324, 18.62, 3.50, 4.00
** 377304.563, 3747418.225, 18.78, 3.50, 4.00
** ------------------------------------------------------------------
   LOCATION L0002822     VOLUME   377297.321 3747258.980 17.88
   LOCATION L0002823     VOLUME   377297.240 3747267.571 17.94
   LOCATION L0002824     VOLUME   377297.160 3747276.161 17.99
   LOCATION L0002825     VOLUME   377297.079 3747284.751 18.05
   LOCATION L0002826     VOLUME   377296.998 3747293.342 18.12
   LOCATION L0002827     VOLUME   377296.918 3747301.932 18.19
   LOCATION L0002828     VOLUME   377296.837 3747310.523 18.26
   LOCATION L0002829     VOLUME   377296.756 3747319.113 18.32
   LOCATION L0002830     VOLUME   377296.675 3747327.703 18.35
   LOCATION L0002831     VOLUME   377296.595 3747336.294 18.37
   LOCATION L0002832     VOLUME   377296.514 3747344.884 18.40
   LOCATION L0002833     VOLUME   377296.433 3747353.475 18.41
   LOCATION L0002834     VOLUME   377296.352 3747362.065 18.43
   LOCATION L0002835     VOLUME   377296.272 3747370.656 18.45
   LOCATION L0002836     VOLUME   377296.191 3747379.246 18.46
   LOCATION L0002837     VOLUME   377296.110 3747387.836 18.51
   LOCATION L0002838     VOLUME   377296.029 3747396.427 18.55
   LOCATION L0002839     VOLUME   377295.949 3747405.017 18.60
   LOCATION L0002840     VOLUME   377295.868 3747413.608 18.69
   LOCATION L0002841     VOLUME   377303.046 3747417.545 18.82
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Along Crenshaw Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.77E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 7
** 377293.151, 3747832.482, 20.50, 3.50, 4.00
** 377294.893, 3747556.492, 19.22, 3.50, 4.00
** 377291.989, 3747510.878, 19.17, 3.50, 4.00
** 377280.190, 3747469.395, 18.61, 3.50, 4.00
```

```
** 377269.273, 3747444.981, 18.73, 3.50, 4.00
** 377264.724, 3747436.843, 18.71, 3.50, 4.00
** 377284.436, 3747421.471, 18.61, 3.50, 4.00
** ----------------------------------------------------------------
   LOCATION L0002842     VOLUME   377293.178 3747828.187 20.54
   LOCATION L0002843     VOLUME   377293.232 3747819.596 20.58
   LOCATION L0002844     VOLUME   377293.286 3747811.006 20.62
   LOCATION L0002845     VOLUME   377293.340 3747802.415 20.65
   LOCATION L0002846     VOLUME   377293.395 3747793.824 20.69
   LOCATION L0002847     VOLUME   377293.449 3747785.234 20.73
   LOCATION L0002848     VOLUME   377293.503 3747776.643 20.74
   LOCATION L0002849     VOLUME   377293.557 3747768.052 20.71
   LOCATION L0002850     VOLUME   377293.612 3747759.462 20.69
   LOCATION L0002851     VOLUME   377293.666 3747750.871 20.66
   LOCATION L0002852     VOLUME   377293.720 3747742.281 20.63
   LOCATION L0002853     VOLUME   377293.774 3747733.690 20.61
   LOCATION L0002854     VOLUME   377293.829 3747725.099 20.58
   LOCATION L0002855     VOLUME   377293.883 3747716.509 20.54
   LOCATION L0002856     VOLUME   377293.937 3747707.918 20.47
   LOCATION L0002857     VOLUME   377293.991 3747699.327 20.39
   LOCATION L0002858     VOLUME   377294.046 3747690.737 20.31
   LOCATION L0002859     VOLUME   377294.100 3747682.146 20.24
   LOCATION L0002860     VOLUME   377294.154 3747673.556 20.18
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   LOCATION L0002862     VOLUME   377294.263 3747656.374 20.05
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   LOCATION L0002868     VOLUME   377294.588 3747604.831 19.61
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** Configuration = Adjacent
** Emission Rate = 2.03E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 2
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** DESCRSRC 190th St East of Crenshaw Pl
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.89E-06
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** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 5.0E-06
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   LOCATION L0002803     VOLUME   377393.426 3747422.197 19.48
   LOCATION L0002804     VOLUME   377402.016 3747422.256 19.54
   LOCATION L0002805     VOLUME   377410.607 3747422.315 19.59
   LOCATION L0002806     VOLUME   377419.197 3747422.375 19.65
   LOCATION L0002807     VOLUME   377427.788 3747422.434 19.71
   LOCATION L0002808     VOLUME   377436.379 3747422.493 19.77
   LOCATION L0002809     VOLUME   377444.969 3747422.552 19.84
   LOCATION L0002810     VOLUME   377453.560 3747422.611 19.89
   LOCATION L0002811     VOLUME   377462.150 3747422.670 19.94
   LOCATION L0002812     VOLUME   377470.741 3747422.729 19.99
   LOCATION L0002813     VOLUME   377479.331 3747422.788 20.05
   LOCATION L0002814     VOLUME   377487.922 3747422.848 20.12
   LOCATION L0002815     VOLUME   377496.513 3747422.907 20.18
   LOCATION L0002816     VOLUME   377505.103 3747422.966 20.22
   LOCATION L0002817     VOLUME   377513.694 3747423.025 20.24
   LOCATION L0002818     VOLUME   377522.284 3747423.084 20.26
   LOCATION L0002819     VOLUME   377530.875 3747423.143 20.35
   LOCATION L0002820     VOLUME   377539.466 3747423.202 20.47
   LOCATION L0002821     VOLUME   377548.056 3747423.261 20.59
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
   SRCPARAM STCK1         6.61E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK2         6.61E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK3         6.61E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK4         6.61E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK5         6.61E-06     3.500   366.000  51.90000     0.091
   SRCPARAM STCK6         6.61E-06     3.500   366.000  51.90000     0.091
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0002822     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002823     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002824     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002825     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002826     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002827     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002828     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002829     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002830     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002831     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002832     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002833     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002834     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002835     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002836     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002837     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002838     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002839     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002840     0.000000078      3.50      4.00      1.63
   SRCPARAM L0002841     0.000000078      3.50      4.00      1.63
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0002842     0.0000000354      3.50      4.00      1.63
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   SRCPARAM L0002843     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002844     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002845     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002846     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002847     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002848     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002849     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002850     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002851     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002852     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002853     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002854     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002855     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002856     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002857     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002858     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002859     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002860     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002861     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002862     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002863     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002864     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002865     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002866     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002867     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002868     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002869     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002870     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002871     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002872     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002873     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002874     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002875     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002876     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002877     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002878     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002879     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002880     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002881     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002882     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002883     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002884     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002885     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002886     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002887     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002888     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002889     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002890     0.0000000354      3.50      4.00      1.63
   SRCPARAM L0002891     0.0000000354      3.50      4.00      1.63
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
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SRCPARAM L0002892     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002893     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002894     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002895     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002896     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002897     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002898     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002899     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002900     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002901     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002902     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002903     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002904     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002905     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002906     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002907     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002908     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002909     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002910     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002911     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002912     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002913     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002914     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002915     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002916     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002917     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002918     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002919     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002920     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002921     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002922     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002923     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002924     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002925     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002926     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002927     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002928     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002929     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002930     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002931     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002932     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002933     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002934     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002935     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002936     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002937     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002938     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002939     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002940     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002941     0.00000002781      3.50      4.00      1.63
SRCPARAM L0002942     0.00000002781      3.50      4.00      1.63
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   SRCPARAM L0002943     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002944     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002945     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002946     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002947     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002948     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002949     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002950     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002951     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002952     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002953     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002954     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002955     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002956     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002957     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002958     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002959     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002960     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002961     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002962     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002963     0.00000002781      3.50      4.00      1.63
   SRCPARAM L0002964     0.00000002781      3.50      4.00      1.63
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0002965     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002966     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002967     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002968     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002969     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002970     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002971     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002972     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002973     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002974     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002975     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002976     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002977     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002978     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002979     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002980     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002981     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002982     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002983     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002984     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002985     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002986     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002987     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002988     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002989     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002990     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0002991     0.00000005169      3.50      4.00      1.63
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SRCPARAM L0002992     0.00000005169      3.50      4.00      1.63
SRCPARAM L0002993     0.00000005169      3.50      4.00      1.63
SRCPARAM L0002994     0.00000005169      3.50      4.00      1.63
SRCPARAM L0002995     0.00000005169      3.50      4.00      1.63
SRCPARAM L0002996     0.00000005169      3.50      4.00      1.63
SRCPARAM L0002997     0.00000005169      3.50      4.00      1.63
SRCPARAM L0002998     0.00000005169      3.50      4.00      1.63
SRCPARAM L0002999     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003000     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003001     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003002     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003003     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003004     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003005     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003006     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003007     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003008     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003009     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003010     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003011     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003012     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003013     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003014     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003015     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003016     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003017     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003018     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003019     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003020     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003021     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003022     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003023     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003024     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003025     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003026     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003027     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003028     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003029     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003030     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003031     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003032     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003033     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003034     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003035     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003036     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003037     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003038     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003039     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003040     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003041     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003042     0.00000005169      3.50      4.00      1.63
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SRCPARAM L0003043     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003044     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003045     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003046     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003047     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003048     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003049     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003050     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003051     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003052     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003053     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003054     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003055     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003056     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003057     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003058     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003059     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003060     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003061     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003062     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003063     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003064     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003065     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003066     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003067     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003068     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003069     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003070     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003071     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003072     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003073     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003074     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003075     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003076     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003077     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003078     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003079     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003080     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003081     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003082     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003083     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003084     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003085     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003086     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003087     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003088     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003089     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003090     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003091     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003092     0.00000005169      3.50      4.00      1.63
SRCPARAM L0003093     0.00000005169      3.50      4.00      1.63
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   SRCPARAM L0003094     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003095     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003096     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003097     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003098     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003099     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003100     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003101     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003102     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003103     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003104     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003105     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003106     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003107     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003108     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003109     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003110     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003111     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003112     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003113     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003114     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003115     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003116     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003117     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003118     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003119     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003120     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003121     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003122     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003123     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003124     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003125     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003126     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003127     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003128     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003129     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003130     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003131     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003132     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003133     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003134     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003135     0.00000005169      3.50      4.00      1.63
   SRCPARAM L0003136     0.00000005169      3.50      4.00      1.63
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0002794     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002795     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002796     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002797     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002798     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002799     0.0000001786      3.50      4.00      5.10
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   SRCPARAM L0002800     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002801     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002802     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002803     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002804     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002805     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002806     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002807     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002808     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002809     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002810     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002811     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002812     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002813     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002814     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002815     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002816     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002817     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002818     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002819     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002820     0.0000001786      3.50      4.00      5.10
   SRCPARAM L0002821     0.0000001786      3.50      4.00      5.10
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK1           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK2           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK3           10.97    10.97    10.97    10.97    10.97    10.97

   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
   BUILDHGT STCK4           10.97    10.97    10.97    10.97    10.97    10.97
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BUILDHGT STCK4	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK5	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDHGT STCK6	10.97	10.97	10.97	10.97	10.97	10.97
BUILDWID STCK1	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK1	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK1	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK1	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK1	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK1	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK2	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK2	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK2	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK2	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK2	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK2	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK3	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK3	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK3	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK3	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK3	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK3	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK4	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK4	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK4	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK4	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK4	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK4	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK5	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK5	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK5	249.87	265.99	274.04	273.76	265.16	249.91
BUILDWID STCK5	257.20	262.55	259.93	249.40	231.30	206.18
BUILDWID STCK5	174.78	138.08	117.90	159.02	195.56	226.15
BUILDWID STCK5	249.87	265.99	274.04	273.76	265.16	249.91

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BUILDWID STCK6          257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK6          174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK6          249.87   265.99   274.04   273.76   265.16   249.91
BUILDWID STCK6          257.20   262.55   259.93   249.40   231.30   206.18
BUILDWID STCK6          174.78   138.08   117.90   159.02   195.56   226.15
BUILDWID STCK6          249.87   265.99   274.04   273.76   265.16   249.91

BUILDLEN STCK1          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK1          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK1          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK1          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK1          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK1          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK2          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK2          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK2          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK2          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK2          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK2          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK3          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK3          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK3          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK3          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK3          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK3          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK4          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK4          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK4          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK4          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK4          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK4          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK5          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK5          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK5          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK5          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK5          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK5          249.40   231.30   206.18   174.78   138.08   117.90

BUILDLEN STCK6          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK6          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK6          249.40   231.30   206.18   174.78   138.08   117.90
BUILDLEN STCK6          159.02   195.56   226.15   249.87   265.99   274.04
BUILDLEN STCK6          273.76   265.16   249.91   257.20   262.55   259.93
BUILDLEN STCK6          249.40   231.30   206.18   174.78   138.08   117.90

XBADJ    STCK1         -105.24  -105.31  -102.18   -95.95   -86.80   -75.02
XBADJ    STCK1          -60.95   -45.04   -28.22   -27.12   -25.20   -22.52
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XBADJ	STCK1	-19.15	-15.20	-10.78	-6.04	-1.12	-15.93
XBADJ	STCK1	-53.78	-90.24	-123.96	-153.91	-179.19	-199.02
XBADJ	STCK1	-212.80	-220.12	-221.69	-230.07	-237.35	-237.41
XBADJ	STCK1	-230.25	-216.11	-195.39	-168.74	-136.96	-101.97
XBADJ	STCK2	-113.90	-121.64	-125.67	-125.89	-122.29	-114.96
XBADJ	STCK2	-104.15	-90.17	-73.92	-72.00	-67.90	-61.73
XBADJ	STCK2	-53.68	-44.01	-32.99	-20.98	-8.33	-15.19
XBADJ	STCK2	-45.12	-73.92	-100.47	-123.97	-143.71	-159.07
XBADJ	STCK2	-169.61	-174.99	-175.99	-185.20	-194.66	-198.20
XBADJ	STCK2	-195.72	-187.30	-173.18	-153.80	-129.75	-102.71
XBADJ	STCK3	-120.75	-135.28	-145.69	-151.68	-153.06	-149.79
XBADJ	STCK3	-141.97	-129.83	-114.22	-111.72	-105.82	-96.70
XBADJ	STCK3	-84.65	-70.03	-53.27	-34.90	-15.47	-15.34
XBADJ	STCK3	-38.27	-60.28	-80.45	-98.18	-112.93	-124.25
XBADJ	STCK3	-131.79	-135.32	-135.69	-145.48	-156.73	-163.22
XBADJ	STCK3	-164.75	-161.28	-152.90	-139.88	-122.61	-102.56
XBADJ	STCK4	-125.91	-145.43	-160.54	-170.77	-175.81	-175.50
XBADJ	STCK4	-169.87	-159.07	-143.91	-140.95	-133.72	-122.41
XBADJ	STCK4	-107.39	-89.11	-68.12	-45.06	-20.63	-15.34
XBADJ	STCK4	-33.11	-50.12	-65.61	-79.10	-90.19	-98.53
XBADJ	STCK4	-103.89	-106.09	-106.00	-116.24	-128.83	-137.51
XBADJ	STCK4	-142.01	-142.19	-138.06	-129.73	-117.45	-102.56
XBADJ	STCK5	-132.32	-156.89	-176.69	-191.12	-199.74	-202.29
XBADJ	STCK5	-198.70	-189.07	-174.16	-170.54	-161.74	-148.02
XBADJ	STCK5	-129.81	-107.65	-82.22	-54.29	-24.72	-14.16
XBADJ	STCK5	-26.70	-38.67	-49.46	-58.75	-66.26	-71.75
XBADJ	STCK5	-75.06	-76.09	-75.75	-86.66	-100.81	-111.90
XBADJ	STCK5	-119.60	-123.65	-123.95	-120.49	-113.36	-103.74
XBADJ	STCK6	-136.55	-166.54	-191.46	-210.57	-223.28	-229.20
XBADJ	STCK6	-228.16	-220.19	-206.00	-202.13	-192.11	-176.26
XBADJ	STCK6	-155.05	-129.13	-99.28	-66.42	-31.55	-15.48
XBADJ	STCK6	-22.47	-29.02	-34.68	-39.30	-42.71	-44.83
XBADJ	STCK6	-45.59	-44.96	-43.91	-55.07	-70.44	-83.67
XBADJ	STCK6	-94.36	-102.18	-106.89	-108.36	-106.53	-102.42
YBADJ	STCK1	-101.47	-106.07	-107.44	-105.55	-100.45	-92.30
YBADJ	STCK1	-81.35	-67.92	-43.02	-25.73	-7.53	10.89
YBADJ	STCK1	28.98	46.19	62.00	75.93	87.54	96.74
YBADJ	STCK1	101.47	106.07	107.44	105.55	100.45	92.30
YBADJ	STCK1	81.35	67.92	43.02	25.73	7.53	-10.89
YBADJ	STCK1	-28.98	-46.19	-62.00	-75.93	-87.54	-96.74
YBADJ	STCK2	-56.60	-63.38	-68.24	-71.02	-71.65	-70.09
YBADJ	STCK2	-66.41	-60.71	-43.76	-34.39	-23.86	-12.60
YBADJ	STCK2	-0.96	10.71	22.05	32.73	42.41	51.04
YBADJ	STCK2	56.60	63.38	68.24	71.02	71.65	70.09

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   YBADJ    STCK2           66.41    60.71    43.76    34.39    23.86    12.60
   YBADJ    STCK2            0.96   -10.71   -22.05   -32.73   -42.41   -51.04

   YBADJ    STCK3          -16.88   -25.46   -33.26   -40.05   -45.63   -49.81
   YBADJ    STCK3          -52.49   -53.57   -43.61   -41.24   -37.50   -32.62
   YBADJ    STCK3          -26.75   -20.07   -12.77    -5.09     2.75    10.74
   YBADJ    STCK3           16.88    25.46    33.26    40.05    45.63    49.81
   YBADJ    STCK3           52.49    53.57    43.61    41.24    37.50    32.62
   YBADJ    STCK3           26.75    20.07    12.77     5.09    -2.75   -10.74

   YBADJ    STCK4           12.36     2.44    -7.55   -17.31   -26.54   -34.97
   YBADJ    STCK4          -42.33   -48.41   -43.61   -46.40   -47.66   -47.47
   YBADJ    STCK4          -45.83   -42.81   -38.48   -32.99   -26.49   -18.95
   YBADJ    STCK4          -12.36    -2.44     7.55    17.31    26.54    34.97
   YBADJ    STCK4           42.33    48.41    43.61    46.40    47.66    47.47
   YBADJ    STCK4           45.83    42.81    38.48    32.99    26.49    18.95

   YBADJ    STCK5           41.94    30.46    18.06     5.11    -8.00   -20.87
   YBADJ    STCK5          -33.10   -44.32   -44.79   -52.81   -59.11   -63.61
   YBADJ    STCK5          -66.18   -66.74   -65.27   -61.82   -56.49   -49.20
   YBADJ    STCK5          -41.94   -30.46   -18.06    -5.11     8.00    20.87
   YBADJ    STCK5           33.10    44.32    44.79    52.81    59.11    63.61
   YBADJ    STCK5           66.18    66.74    65.27    61.82    56.49    49.20

   YBADJ    STCK6           73.53    60.83    46.29    30.35    13.48    -3.80
   YBADJ    STCK6          -20.97   -37.49   -43.47   -57.04   -68.76   -78.39
   YBADJ    STCK6          -85.64   -90.28   -92.19   -91.29   -87.61   -81.04
   YBADJ    STCK6          -73.53   -60.83   -46.29   -30.35   -13.48     3.80
   YBADJ    STCK6           20.97    37.49    43.47    57.04    68.76    78.39
   YBADJ    STCK6           85.64    90.28    92.19    91.29    87.61    81.04

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "190th St Warehouse 2022 2nd 14YR.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.SFC"
```

```
   PROFFILE "E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL"
   SURFDATA 3167 2012
   UAIRDATA 3190 2012
   PROFBASE 19.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "190TH ST WAREHOUSE 2022 2ND 14YR.AD\PE00GALL.PLT" 31
   SUMMFILE "190th St Warehouse 2022 2nd 14YR.sum"
OU FINISHED


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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            8 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 SO W320     480        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     481        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     482        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     483        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     484        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 SO W320     485        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
 ME W186    1075       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    1075       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


 *** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                  ***        08/29/22
 *** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                  ***        09:28:36
                                                                                                                PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F

**Model Uses URBAN Dispersion Algorithm for the SBL for   349 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   9818605.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
       1. Stack-tip Downwash.
       2. Model Accounts for ELEVated Terrain Effects.
       3. Use Calms Processing Routine.
       4. Use Missing Data Processing Routine.
       5. No Exponential Decay.
       6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
       ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       CCVR_Sub - Meteorological data includes CCVR substitutions
       TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    349 Source(s);       1 Source Group(s); and     449 Receptor(s)

              with:      6 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
               and:    343 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)


**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) =    19.00 ;  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 =      4.2 MB of RAM.

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

**Detailed Error/Message File:   190th St Warehouse 2022 2nd 14YR.err
**File for Summary of Results:   190th St Warehouse 2022 2nd 14YR.sum

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                          ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                          ***        09:28:36
                                                                                                                      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   0.66100E-05  377355.8 3747400.0    19.1     3.50   366.00    51.90     0.09    YES     YES   NO
STCK2           0   0.66100E-05  377401.5 3747400.7    19.4     3.50   366.00    51.90     0.09    YES     YES   NO
STCK3           0   0.66100E-05  377441.8 3747400.6    19.7     3.50   366.00    51.90     0.09    YES     YES   NO
STCK4           0   0.66100E-05  377471.5 3747400.6    19.9     3.50   366.00    51.90     0.09    YES     YES   NO
STCK5           0   0.66100E-05  377501.8 3747401.7    20.2     3.50   366.00    51.90     0.09    YES     YES   NO
STCK6           0   0.66100E-05  377533.6 3747400.4    20.9     3.50   366.00    51.90     0.09    YES     YES   NO

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                          ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                          ***        09:28:36
                                                                                                                      PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY       SZ     SOURCE  SCALAR VARY
    ID        CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
```

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

L0002822         0   0.78000E-07  377297.3 3747259.0    17.9     3.50     4.00     1.63     YES
L0002823         0   0.78000E-07  377297.2 3747267.6    17.9     3.50     4.00     1.63     YES
L0002824         0   0.78000E-07  377297.2 3747276.2    18.0     3.50     4.00     1.63     YES
L0002825         0   0.78000E-07  377297.1 3747284.8    18.1     3.50     4.00     1.63     YES
L0002826         0   0.78000E-07  377297.0 3747293.3    18.1     3.50     4.00     1.63     YES
L0002827         0   0.78000E-07  377296.9 3747301.9    18.2     3.50     4.00     1.63     YES
L0002828         0   0.78000E-07  377296.8 3747310.5    18.3     3.50     4.00     1.63     YES
L0002829         0   0.78000E-07  377296.8 3747319.1    18.3     3.50     4.00     1.63     YES
L0002830         0   0.78000E-07  377296.7 3747327.7    18.4     3.50     4.00     1.63     YES
L0002831         0   0.78000E-07  377296.6 3747336.3    18.4     3.50     4.00     1.63     YES
L0002832         0   0.78000E-07  377296.5 3747344.9    18.4     3.50     4.00     1.63     YES
L0002833         0   0.78000E-07  377296.4 3747353.5    18.4     3.50     4.00     1.63     YES
L0002834         0   0.78000E-07  377296.4 3747362.1    18.4     3.50     4.00     1.63     YES
L0002835         0   0.78000E-07  377296.3 3747370.7    18.4     3.50     4.00     1.63     YES
L0002836         0   0.78000E-07  377296.2 3747379.2    18.5     3.50     4.00     1.63     YES
L0002837         0   0.78000E-07  377296.1 3747387.8    18.5     3.50     4.00     1.63     YES
L0002838         0   0.78000E-07  377296.0 3747396.4    18.6     3.50     4.00     1.63     YES
L0002839         0   0.78000E-07  377295.9 3747405.0    18.6     3.50     4.00     1.63     YES
L0002840         0   0.78000E-07  377295.9 3747413.6    18.7     3.50     4.00     1.63     YES
L0002841         0   0.78000E-07  377303.0 3747417.5    18.8     3.50     4.00     1.63     YES
L0002842         0   0.35400E-07  377293.2 3747828.2    20.5     3.50     4.00     1.63     YES
L0002843         0   0.35400E-07  377293.2 3747819.6    20.6     3.50     4.00     1.63     YES
L0002844         0   0.35400E-07  377293.3 3747811.0    20.6     3.50     4.00     1.63     YES
L0002845         0   0.35400E-07  377293.3 3747802.4    20.7     3.50     4.00     1.63     YES
L0002846         0   0.35400E-07  377293.4 3747793.8    20.7     3.50     4.00     1.63     YES
L0002847         0   0.35400E-07  377293.4 3747785.2    20.7     3.50     4.00     1.63     YES
L0002848         0   0.35400E-07  377293.5 3747776.6    20.7     3.50     4.00     1.63     YES
L0002849         0   0.35400E-07  377293.6 3747768.1    20.7     3.50     4.00     1.63     YES
L0002850         0   0.35400E-07  377293.6 3747759.5    20.7     3.50     4.00     1.63     YES
L0002851         0   0.35400E-07  377293.7 3747750.9    20.7     3.50     4.00     1.63     YES
L0002852         0   0.35400E-07  377293.7 3747742.3    20.6     3.50     4.00     1.63     YES
L0002853         0   0.35400E-07  377293.8 3747733.7    20.6     3.50     4.00     1.63     YES
L0002854         0   0.35400E-07  377293.8 3747725.1    20.6     3.50     4.00     1.63     YES
L0002855         0   0.35400E-07  377293.9 3747716.5    20.5     3.50     4.00     1.63     YES
L0002856         0   0.35400E-07  377293.9 3747707.9    20.5     3.50     4.00     1.63     YES
L0002857         0   0.35400E-07  377294.0 3747699.3    20.4     3.50     4.00     1.63     YES
L0002858         0   0.35400E-07  377294.0 3747690.7    20.3     3.50     4.00     1.63     YES
L0002859         0   0.35400E-07  377294.1 3747682.1    20.2     3.50     4.00     1.63     YES
L0002860         0   0.35400E-07  377294.2 3747673.6    20.2     3.50     4.00     1.63     YES
L0002861         0   0.35400E-07  377294.2 3747665.0    20.1     3.50     4.00     1.63     YES

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                  ***        09:28:36
                                                                                                              PAGE   4
*** 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
L0002862	0	0.35400E-07	377294.3	3747656.4	20.1	3.50	4.00	1.63	YES	
L0002863	0	0.35400E-07	377294.3	3747647.8	20.0	3.50	4.00	1.63	YES	
L0002864	0	0.35400E-07	377294.4	3747639.2	19.9	3.50	4.00	1.63	YES	
L0002865	0	0.35400E-07	377294.4	3747630.6	19.8	3.50	4.00	1.63	YES	
L0002866	0	0.35400E-07	377294.5	3747622.0	19.8	3.50	4.00	1.63	YES	
L0002867	0	0.35400E-07	377294.5	3747613.4	19.7	3.50	4.00	1.63	YES	
L0002868	0	0.35400E-07	377294.6	3747604.8	19.6	3.50	4.00	1.63	YES	
L0002869	0	0.35400E-07	377294.6	3747596.2	19.5	3.50	4.00	1.63	YES	
L0002870	0	0.35400E-07	377294.7	3747587.6	19.4	3.50	4.00	1.63	YES	
L0002871	0	0.35400E-07	377294.8	3747579.1	19.4	3.50	4.00	1.63	YES	
L0002872	0	0.35400E-07	377294.8	3747570.5	19.3	3.50	4.00	1.63	YES	
L0002873	0	0.35400E-07	377294.9	3747561.9	19.2	3.50	4.00	1.63	YES	
L0002874	0	0.35400E-07	377294.7	3747553.3	19.2	3.50	4.00	1.63	YES	
L0002875	0	0.35400E-07	377294.1	3747544.7	19.1	3.50	4.00	1.63	YES	
L0002876	0	0.35400E-07	377293.6	3747536.1	19.1	3.50	4.00	1.63	YES	
L0002877	0	0.35400E-07	377293.1	3747527.6	19.1	3.50	4.00	1.63	YES	
L0002878	0	0.35400E-07	377292.5	3747519.0	19.1	3.50	4.00	1.63	YES	
L0002879	0	0.35400E-07	377291.9	3747510.4	19.1	3.50	4.00	1.63	YES	
L0002880	0	0.35400E-07	377289.5	3747502.2	19.0	3.50	4.00	1.63	YES	
L0002881	0	0.35400E-07	377287.2	3747493.9	18.9	3.50	4.00	1.63	YES	
L0002882	0	0.35400E-07	377284.8	3747485.7	18.8	3.50	4.00	1.63	YES	
L0002883	0	0.35400E-07	377282.5	3747477.4	18.7	3.50	4.00	1.63	YES	
L0002884	0	0.35400E-07	377280.1	3747469.1	18.7	3.50	4.00	1.63	YES	
L0002885	0	0.35400E-07	377276.6	3747461.3	18.7	3.50	4.00	1.63	YES	
L0002886	0	0.35400E-07	377273.1	3747453.5	18.7	3.50	4.00	1.63	YES	
L0002887	0	0.35400E-07	377269.6	3747445.6	18.7	3.50	4.00	1.63	YES	
L0002888	0	0.35400E-07	377265.4	3747438.1	18.7	3.50	4.00	1.63	YES	
L0002889	0	0.35400E-07	377270.4	3747432.4	18.7	3.50	4.00	1.63	YES	
L0002890	0	0.35400E-07	377277.1	3747427.2	18.8	3.50	4.00	1.63	YES	
L0002891	0	0.35400E-07	377283.9	3747421.9	18.8	3.50	4.00	1.63	YES	
L0002892	0	0.27810E-07	377291.7	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002893	0	0.27810E-07	377283.1	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002894	0	0.27810E-07	377274.5	3747243.2	17.8	3.50	4.00	1.63	YES	
L0002895	0	0.27810E-07	377265.9	3747243.3	17.8	3.50	4.00	1.63	YES	
L0002896	0	0.27810E-07	377257.3	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002897	0	0.27810E-07	377248.7	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002898	0	0.27810E-07	377240.1	3747243.3	17.7	3.50	4.00	1.63	YES	
L0002899	0	0.27810E-07	377231.6	3747243.3	17.8	3.50	4.00	1.63	YES	
L0002900	0	0.27810E-07	377223.0	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002901	0	0.27810E-07	377214.4	3747243.3	18.0	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
L0002902	0	0.27810E-07	377205.8	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002903	0	0.27810E-07	377197.2	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002904	0	0.27810E-07	377188.6	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002905	0	0.27810E-07	377180.0	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002906	0	0.27810E-07	377171.4	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002907	0	0.27810E-07	377162.8	3747243.3	18.1	3.50	4.00	1.63	YES	
L0002908	0	0.27810E-07	377154.2	3747243.3	18.2	3.50	4.00	1.63	YES	
L0002909	0	0.27810E-07	377145.6	3747243.3	18.3	3.50	4.00	1.63	YES	
L0002910	0	0.27810E-07	377137.1	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002911	0	0.27810E-07	377128.5	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002912	0	0.27810E-07	377119.9	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002913	0	0.27810E-07	377111.3	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002914	0	0.27810E-07	377102.7	3747243.4	18.4	3.50	4.00	1.63	YES	
L0002915	0	0.27810E-07	377094.1	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002916	0	0.27810E-07	377085.5	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002917	0	0.27810E-07	377076.9	3747243.4	18.5	3.50	4.00	1.63	YES	
L0002918	0	0.27810E-07	377068.3	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002919	0	0.27810E-07	377059.7	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002920	0	0.27810E-07	377051.1	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002921	0	0.27810E-07	377042.6	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002922	0	0.27810E-07	377034.0	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002923	0	0.27810E-07	377025.4	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002924	0	0.27810E-07	377016.8	3747243.4	18.9	3.50	4.00	1.63	YES	
L0002925	0	0.27810E-07	377008.2	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002926	0	0.27810E-07	376999.6	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002927	0	0.27810E-07	376991.0	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002928	0	0.27810E-07	376982.4	3747243.5	18.8	3.50	4.00	1.63	YES	
L0002929	0	0.27810E-07	376973.8	3747243.5	18.9	3.50	4.00	1.63	YES	
L0002930	0	0.27810E-07	376965.2	3747243.5	19.0	3.50	4.00	1.63	YES	
L0002931	0	0.27810E-07	376956.6	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002932	0	0.27810E-07	376948.1	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002933	0	0.27810E-07	376939.5	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002934	0	0.27810E-07	376930.9	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002935	0	0.27810E-07	376922.3	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002936	0	0.27810E-07	376913.7	3747243.5	19.1	3.50	4.00	1.63	YES	
L0002937	0	0.27810E-07	376905.1	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002938	0	0.27810E-07	376896.5	3747243.5	19.2	3.50	4.00	1.63	YES	
L0002939	0	0.27810E-07	376887.9	3747243.5	19.3	3.50	4.00	1.63	YES	
L0002940	0	0.27810E-07	376879.3	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002941	0	0.27810E-07	376870.7	3747243.6	19.4	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
L0002942	0	0.27810E-07	376862.1	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002943	0	0.27810E-07	376853.6	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002944	0	0.27810E-07	376845.0	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002945	0	0.27810E-07	376836.4	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002946	0	0.27810E-07	376827.8	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002947	0	0.27810E-07	376819.2	3747243.6	19.4	3.50	4.00	1.63	YES	
L0002948	0	0.27810E-07	376810.6	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002949	0	0.27810E-07	376802.0	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002950	0	0.27810E-07	376793.4	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002951	0	0.27810E-07	376784.8	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002952	0	0.27810E-07	376776.2	3747243.6	19.5	3.50	4.00	1.63	YES	
L0002953	0	0.27810E-07	376767.7	3747243.6	19.6	3.50	4.00	1.63	YES	
L0002954	0	0.27810E-07	376759.1	3747243.6	19.6	3.50	4.00	1.63	YES	
L0002955	0	0.27810E-07	376750.5	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002956	0	0.27810E-07	376741.9	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002957	0	0.27810E-07	376733.3	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002958	0	0.27810E-07	376724.7	3747243.7	19.7	3.50	4.00	1.63	YES	
L0002959	0	0.27810E-07	376716.1	3747243.7	19.8	3.50	4.00	1.63	YES	
L0002960	0	0.27810E-07	376707.5	3747243.7	19.9	3.50	4.00	1.63	YES	
L0002961	0	0.27810E-07	376698.9	3747243.7	19.9	3.50	4.00	1.63	YES	
L0002962	0	0.27810E-07	376690.3	3747243.7	20.0	3.50	4.00	1.63	YES	
L0002963	0	0.27810E-07	376681.7	3747243.7	20.0	3.50	4.00	1.63	YES	
L0002964	0	0.27810E-07	376673.2	3747243.7	20.1	3.50	4.00	1.63	YES	
L0002965	0	0.51690E-07	377300.6	3747243.3	17.9	3.50	4.00	1.63	YES	
L0002966	0	0.51690E-07	377309.2	3747243.3	18.0	3.50	4.00	1.63	YES	
L0002967	0	0.51690E-07	377317.7	3747243.3	18.1	3.50	4.00	1.63	YES	
L0002968	0	0.51690E-07	377326.3	3747243.3	18.2	3.50	4.00	1.63	YES	
L0002969	0	0.51690E-07	377334.9	3747243.3	18.3	3.50	4.00	1.63	YES	
L0002970	0	0.51690E-07	377343.5	3747243.3	18.4	3.50	4.00	1.63	YES	
L0002971	0	0.51690E-07	377352.1	3747243.3	18.5	3.50	4.00	1.63	YES	
L0002972	0	0.51690E-07	377360.7	3747243.4	18.6	3.50	4.00	1.63	YES	
L0002973	0	0.51690E-07	377369.3	3747243.4	18.7	3.50	4.00	1.63	YES	
L0002974	0	0.51690E-07	377377.9	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002975	0	0.51690E-07	377386.5	3747243.4	18.8	3.50	4.00	1.63	YES	
L0002976	0	0.51690E-07	377395.1	3747243.4	18.9	3.50	4.00	1.63	YES	
L0002977	0	0.51690E-07	377403.7	3747243.4	19.0	3.50	4.00	1.63	YES	
L0002978	0	0.51690E-07	377412.2	3747243.4	19.2	3.50	4.00	1.63	YES	
L0002979	0	0.51690E-07	377420.8	3747243.4	19.3	3.50	4.00	1.63	YES	
L0002980	0	0.51690E-07	377429.4	3747243.4	19.4	3.50	4.00	1.63	YES	
L0002981	0	0.51690E-07	377438.0	3747243.4	19.5	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
L0002982	0	0.51690E-07	377446.6	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002983	0	0.51690E-07	377455.2	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002984	0	0.51690E-07	377463.8	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002985	0	0.51690E-07	377472.4	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002986	0	0.51690E-07	377481.0	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002987	0	0.51690E-07	377489.6	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002988	0	0.51690E-07	377498.1	3747243.4	19.8	3.50	4.00	1.63	YES	
L0002989	0	0.51690E-07	377506.7	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002990	0	0.51690E-07	377515.3	3747243.4	19.7	3.50	4.00	1.63	YES	
L0002991	0	0.51690E-07	377523.9	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002992	0	0.51690E-07	377532.5	3747243.4	19.6	3.50	4.00	1.63	YES	
L0002993	0	0.51690E-07	377541.1	3747243.4	19.5	3.50	4.00	1.63	YES	
L0002994	0	0.51690E-07	377549.7	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002995	0	0.51690E-07	377558.3	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002996	0	0.51690E-07	377566.9	3747243.5	19.5	3.50	4.00	1.63	YES	
L0002997	0	0.51690E-07	377575.5	3747243.5	19.4	3.50	4.00	1.63	YES	
L0002998	0	0.51690E-07	377584.1	3747243.5	19.4	3.50	4.00	1.63	YES	
L0002999	0	0.51690E-07	377592.6	3747243.5	19.3	3.50	4.00	1.63	YES	
L0003000	0	0.51690E-07	377601.2	3747243.5	19.2	3.50	4.00	1.63	YES	
L0003001	0	0.51690E-07	377609.8	3747243.5	19.2	3.50	4.00	1.63	YES	
L0003002	0	0.51690E-07	377618.4	3747243.5	19.2	3.50	4.00	1.63	YES	
L0003003	0	0.51690E-07	377627.0	3747243.5	19.1	3.50	4.00	1.63	YES	
L0003004	0	0.51690E-07	377635.6	3747243.5	19.1	3.50	4.00	1.63	YES	
L0003005	0	0.51690E-07	377644.2	3747243.5	19.0	3.50	4.00	1.63	YES	
L0003006	0	0.51690E-07	377652.8	3747243.5	19.0	3.50	4.00	1.63	YES	
L0003007	0	0.51690E-07	377661.4	3747243.5	18.9	3.50	4.00	1.63	YES	
L0003008	0	0.51690E-07	377670.0	3747243.5	18.9	3.50	4.00	1.63	YES	
L0003009	0	0.51690E-07	377678.6	3747243.5	18.8	3.50	4.00	1.63	YES	
L0003010	0	0.51690E-07	377687.1	3747243.5	18.8	3.50	4.00	1.63	YES	
L0003011	0	0.51690E-07	377695.7	3747243.5	18.7	3.50	4.00	1.63	YES	
L0003012	0	0.51690E-07	377704.3	3747243.5	18.7	3.50	4.00	1.63	YES	
L0003013	0	0.51690E-07	377712.9	3747243.5	18.6	3.50	4.00	1.63	YES	
L0003014	0	0.51690E-07	377721.5	3747243.5	18.6	3.50	4.00	1.63	YES	
L0003015	0	0.51690E-07	377730.1	3747243.5	18.5	3.50	4.00	1.63	YES	
L0003016	0	0.51690E-07	377738.7	3747243.6	18.5	3.50	4.00	1.63	YES	
L0003017	0	0.51690E-07	377747.3	3747243.6	18.4	3.50	4.00	1.63	YES	
L0003018	0	0.51690E-07	377755.9	3747243.6	18.4	3.50	4.00	1.63	YES	

L0003019	0	0.51690E-07	377764.5	3747243.6	18.3	3.50	4.00	1.63	YES
L0003020	0	0.51690E-07	377773.1	3747243.6	18.2	3.50	4.00	1.63	YES
L0003021	0	0.51690E-07	377781.6	3747243.6	18.2	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
L0003022	0	0.51690E-07	377790.2	3747243.6	18.2	3.50	4.00	1.63	YES	
L0003023	0	0.51690E-07	377798.8	3747243.6	18.2	3.50	4.00	1.63	YES	
L0003024	0	0.51690E-07	377807.4	3747243.6	18.2	3.50	4.00	1.63	YES	
L0003025	0	0.51690E-07	377816.0	3747243.6	18.2	3.50	4.00	1.63	YES	
L0003026	0	0.51690E-07	377824.6	3747243.6	18.2	3.50	4.00	1.63	YES	
L0003027	0	0.51690E-07	377833.2	3747243.6	18.3	3.50	4.00	1.63	YES	
L0003028	0	0.51690E-07	377841.8	3747243.6	18.3	3.50	4.00	1.63	YES	
L0003029	0	0.51690E-07	377850.4	3747243.6	18.3	3.50	4.00	1.63	YES	
L0003030	0	0.51690E-07	377859.0	3747243.6	18.3	3.50	4.00	1.63	YES	
L0003031	0	0.51690E-07	377867.6	3747243.6	18.3	3.50	4.00	1.63	YES	
L0003032	0	0.51690E-07	377876.1	3747243.6	18.4	3.50	4.00	1.63	YES	
L0003033	0	0.51690E-07	377884.7	3747243.6	18.4	3.50	4.00	1.63	YES	
L0003034	0	0.51690E-07	377893.3	3747243.6	18.5	3.50	4.00	1.63	YES	
L0003035	0	0.51690E-07	377901.9	3747243.6	18.6	3.50	4.00	1.63	YES	
L0003036	0	0.51690E-07	377910.5	3747243.6	18.6	3.50	4.00	1.63	YES	
L0003037	0	0.51690E-07	377919.1	3747243.6	18.7	3.50	4.00	1.63	YES	
L0003038	0	0.51690E-07	377927.7	3747243.7	18.7	3.50	4.00	1.63	YES	
L0003039	0	0.51690E-07	377936.3	3747243.7	18.8	3.50	4.00	1.63	YES	
L0003040	0	0.51690E-07	377944.9	3747243.7	18.9	3.50	4.00	1.63	YES	
L0003041	0	0.51690E-07	377953.5	3747243.7	19.1	3.50	4.00	1.63	YES	
L0003042	0	0.51690E-07	377962.1	3747243.7	19.2	3.50	4.00	1.63	YES	
L0003043	0	0.51690E-07	377970.6	3747243.7	19.1	3.50	4.00	1.63	YES	
L0003044	0	0.51690E-07	377979.2	3747243.7	19.1	3.50	4.00	1.63	YES	
L0003045	0	0.51690E-07	377987.8	3747243.7	19.1	3.50	4.00	1.63	YES	
L0003046	0	0.51690E-07	377996.4	3747243.7	19.2	3.50	4.00	1.63	YES	
L0003047	0	0.51690E-07	378005.0	3747243.7	19.2	3.50	4.00	1.63	YES	
L0003048	0	0.51690E-07	378013.6	3747243.7	19.2	3.50	4.00	1.63	YES	
L0003049	0	0.51690E-07	378022.2	3747243.7	19.3	3.50	4.00	1.63	YES	
L0003050	0	0.51690E-07	378030.8	3747243.7	19.3	3.50	4.00	1.63	YES	
L0003051	0	0.51690E-07	378039.4	3747243.7	19.4	3.50	4.00	1.63	YES	
L0003052	0	0.51690E-07	378048.0	3747243.7	19.5	3.50	4.00	1.63	YES	
L0003053	0	0.51690E-07	378056.6	3747243.7	19.6	3.50	4.00	1.63	YES	
L0003054	0	0.51690E-07	378065.1	3747243.7	19.7	3.50	4.00	1.63	YES	
L0003055	0	0.51690E-07	378073.7	3747243.7	19.7	3.50	4.00	1.63	YES	

L0003056	0	0.51690E-07	378082.3	3747243.7	19.7	3.50	4.00	1.63	YES
L0003057	0	0.51690E-07	378090.9	3747243.7	19.8	3.50	4.00	1.63	YES
L0003058	0	0.51690E-07	378099.5	3747243.7	19.8	3.50	4.00	1.63	YES
L0003059	0	0.51690E-07	378108.1	3747243.7	19.9	3.50	4.00	1.63	YES
L0003060	0	0.51690E-07	378116.7	3747243.8	19.9	3.50	4.00	1.63	YES
L0003061	0	0.51690E-07	378125.3	3747243.8	19.9	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
L0003062	0	0.51690E-07	378133.9	3747243.8	19.9	3.50	4.00	1.63	YES	
L0003063	0	0.51690E-07	378142.5	3747243.8	19.9	3.50	4.00	1.63	YES	
L0003064	0	0.51690E-07	378151.1	3747243.8	19.9	3.50	4.00	1.63	YES	
L0003065	0	0.51690E-07	378159.6	3747243.8	19.9	3.50	4.00	1.63	YES	
L0003066	0	0.51690E-07	378168.2	3747243.8	19.8	3.50	4.00	1.63	YES	
L0003067	0	0.51690E-07	378176.8	3747243.8	19.8	3.50	4.00	1.63	YES	
L0003068	0	0.51690E-07	378185.4	3747243.8	19.7	3.50	4.00	1.63	YES	
L0003069	0	0.51690E-07	378194.0	3747243.8	19.6	3.50	4.00	1.63	YES	
L0003070	0	0.51690E-07	378202.6	3747243.8	19.7	3.50	4.00	1.63	YES	
L0003071	0	0.51690E-07	378211.2	3747243.8	19.7	3.50	4.00	1.63	YES	
L0003072	0	0.51690E-07	378219.8	3747243.8	19.7	3.50	4.00	1.63	YES	
L0003073	0	0.51690E-07	378228.4	3747243.8	19.7	3.50	4.00	1.63	YES	
L0003074	0	0.51690E-07	378237.0	3747243.8	19.7	3.50	4.00	1.63	YES	
L0003075	0	0.51690E-07	378245.5	3747243.8	19.6	3.50	4.00	1.63	YES	
L0003076	0	0.51690E-07	378254.1	3747243.8	19.5	3.50	4.00	1.63	YES	
L0003077	0	0.51690E-07	378262.7	3747243.8	19.4	3.50	4.00	1.63	YES	
L0003078	0	0.51690E-07	378271.3	3747243.8	19.3	3.50	4.00	1.63	YES	
L0003079	0	0.51690E-07	378279.9	3747243.8	19.4	3.50	4.00	1.63	YES	
L0003080	0	0.51690E-07	378288.5	3747243.8	19.4	3.50	4.00	1.63	YES	
L0003081	0	0.51690E-07	378297.1	3747243.8	19.4	3.50	4.00	1.63	YES	
L0003082	0	0.51690E-07	378305.7	3747243.9	19.4	3.50	4.00	1.63	YES	
L0003083	0	0.51690E-07	378314.3	3747243.9	19.4	3.50	4.00	1.63	YES	
L0003084	0	0.51690E-07	378322.9	3747243.9	19.4	3.50	4.00	1.63	YES	
L0003085	0	0.51690E-07	378331.5	3747243.9	19.3	3.50	4.00	1.63	YES	
L0003086	0	0.51690E-07	378340.0	3747243.9	19.3	3.50	4.00	1.63	YES	
L0003087	0	0.51690E-07	378348.6	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003088	0	0.51690E-07	378357.2	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003089	0	0.51690E-07	378365.8	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003090	0	0.51690E-07	378374.4	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003091	0	0.51690E-07	378383.0	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003092	0	0.51690E-07	378391.6	3747243.9	19.2	3.50	4.00	1.63	YES	

L0003093	0	0.51690E-07	378400.2	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003094	0	0.51690E-07	378408.8	3747243.9	19.1	3.50	4.00	1.63	YES	
L0003095	0	0.51690E-07	378417.4	3747243.9	19.0	3.50	4.00	1.63	YES	
L0003096	0	0.51690E-07	378426.0	3747243.9	19.0	3.50	4.00	1.63	YES	
L0003097	0	0.51690E-07	378434.5	3747243.9	19.1	3.50	4.00	1.63	YES	
L0003098	0	0.51690E-07	378443.1	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003099	0	0.51690E-07	378451.7	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003100	0	0.51690E-07	378460.3	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003101	0	0.51690E-07	378468.9	3747243.9	19.2	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
L0003102	0	0.51690E-07	378477.5	3747243.9	19.2	3.50	4.00	1.63	YES	
L0003103	0	0.51690E-07	378486.1	3747243.9	19.1	3.50	4.00	1.63	YES	
L0003104	0	0.51690E-07	378494.7	3747244.0	19.0	3.50	4.00	1.63	YES	
L0003105	0	0.51690E-07	378503.3	3747244.0	19.0	3.50	4.00	1.63	YES	
L0003106	0	0.51690E-07	378511.9	3747244.0	18.9	3.50	4.00	1.63	YES	
L0003107	0	0.51690E-07	378520.5	3747244.0	18.9	3.50	4.00	1.63	YES	
L0003108	0	0.51690E-07	378529.0	3747244.0	18.9	3.50	4.00	1.63	YES	
L0003109	0	0.51690E-07	378537.6	3747244.0	18.8	3.50	4.00	1.63	YES	
L0003110	0	0.51690E-07	378546.2	3747244.0	18.8	3.50	4.00	1.63	YES	
L0003111	0	0.51690E-07	378554.8	3747244.0	18.7	3.50	4.00	1.63	YES	
L0003112	0	0.51690E-07	378563.4	3747244.0	18.7	3.50	4.00	1.63	YES	
L0003113	0	0.51690E-07	378572.0	3747244.0	18.6	3.50	4.00	1.63	YES	
L0003114	0	0.51690E-07	378580.6	3747244.0	18.6	3.50	4.00	1.63	YES	
L0003115	0	0.51690E-07	378589.2	3747244.0	18.6	3.50	4.00	1.63	YES	
L0003116	0	0.51690E-07	378597.8	3747244.0	18.7	3.50	4.00	1.63	YES	
L0003117	0	0.51690E-07	378606.4	3747244.0	18.7	3.50	4.00	1.63	YES	
L0003118	0	0.51690E-07	378615.0	3747244.0	18.7	3.50	4.00	1.63	YES	
L0003119	0	0.51690E-07	378623.5	3747244.0	18.7	3.50	4.00	1.63	YES	
L0003120	0	0.51690E-07	378632.1	3747244.0	18.7	3.50	4.00	1.63	YES	
L0003121	0	0.51690E-07	378640.7	3747244.0	18.6	3.50	4.00	1.63	YES	
L0003122	0	0.51690E-07	378649.3	3747244.0	18.6	3.50	4.00	1.63	YES	
L0003123	0	0.51690E-07	378657.9	3747244.0	18.5	3.50	4.00	1.63	YES	
L0003124	0	0.51690E-07	378666.5	3747244.0	18.4	3.50	4.00	1.63	YES	
L0003125	0	0.51690E-07	378675.1	3747244.0	18.4	3.50	4.00	1.63	YES	
L0003126	0	0.51690E-07	378683.7	3747244.1	18.3	3.50	4.00	1.63	YES	
L0003127	0	0.51690E-07	378692.3	3747244.1	18.4	3.50	4.00	1.63	YES	
L0003128	0	0.51690E-07	378700.9	3747244.1	18.4	3.50	4.00	1.63	YES	
L0003129	0	0.51690E-07	378709.5	3747244.1	18.4	3.50	4.00	1.63	YES	

L0003130	0	0.51690E-07	378718.0	3747244.1	18.4	3.50	4.00	1.63	YES
L0003131	0	0.51690E-07	378726.6	3747244.1	18.4	3.50	4.00	1.63	YES
L0003132	0	0.51690E-07	378735.2	3747244.1	18.3	3.50	4.00	1.63	YES
L0003133	0	0.51690E-07	378743.8	3747244.1	18.2	3.50	4.00	1.63	YES
L0003134	0	0.51690E-07	378752.4	3747244.1	18.2	3.50	4.00	1.63	YES
L0003135	0	0.51690E-07	378761.0	3747244.1	18.1	3.50	4.00	1.63	YES
L0003136	0	0.51690E-07	378769.6	3747244.1	18.1	3.50	4.00	1.63	YES
L0002794	0	0.17860E-06	377316.3	3747420.1	19.0	3.50	4.00	5.10	YES
L0002795	0	0.17860E-06	377324.7	3747421.7	19.0	3.50	4.00	5.10	YES
L0002796	0	0.17860E-06	377333.3	3747421.8	19.1	3.50	4.00	5.10	YES
L0002797	0	0.17860E-06	377341.9	3747421.8	19.1	3.50	4.00	5.10	YES
L0002798	0	0.17860E-06	377350.5	3747421.9	19.2	3.50	4.00	5.10	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
L0002799	0	0.17860E-06	377359.1	3747422.0	19.2	3.50	4.00	5.10	YES	
L0002800	0	0.17860E-06	377367.7	3747422.0	19.3	3.50	4.00	5.10	YES	
L0002801	0	0.17860E-06	377376.2	3747422.1	19.4	3.50	4.00	5.10	YES	
L0002802	0	0.17860E-06	377384.8	3747422.1	19.4	3.50	4.00	5.10	YES	
L0002803	0	0.17860E-06	377393.4	3747422.2	19.5	3.50	4.00	5.10	YES	
L0002804	0	0.17860E-06	377402.0	3747422.3	19.5	3.50	4.00	5.10	YES	
L0002805	0	0.17860E-06	377410.6	3747422.3	19.6	3.50	4.00	5.10	YES	
L0002806	0	0.17860E-06	377419.2	3747422.4	19.7	3.50	4.00	5.10	YES	
L0002807	0	0.17860E-06	377427.8	3747422.4	19.7	3.50	4.00	5.10	YES	
L0002808	0	0.17860E-06	377436.4	3747422.5	19.8	3.50	4.00	5.10	YES	
L0002809	0	0.17860E-06	377445.0	3747422.6	19.8	3.50	4.00	5.10	YES	
L0002810	0	0.17860E-06	377453.6	3747422.6	19.9	3.50	4.00	5.10	YES	
L0002811	0	0.17860E-06	377462.1	3747422.7	19.9	3.50	4.00	5.10	YES	
L0002812	0	0.17860E-06	377470.7	3747422.7	20.0	3.50	4.00	5.10	YES	
L0002813	0	0.17860E-06	377479.3	3747422.8	20.1	3.50	4.00	5.10	YES	
L0002814	0	0.17860E-06	377487.9	3747422.8	20.1	3.50	4.00	5.10	YES	
L0002815	0	0.17860E-06	377496.5	3747422.9	20.2	3.50	4.00	5.10	YES	
L0002816	0	0.17860E-06	377505.1	3747423.0	20.2	3.50	4.00	5.10	YES	
L0002817	0	0.17860E-06	377513.7	3747423.0	20.2	3.50	4.00	5.10	YES	
L0002818	0	0.17860E-06	377522.3	3747423.1	20.3	3.50	4.00	5.10	YES	
L0002819	0	0.17860E-06	377530.9	3747423.1	20.4	3.50	4.00	5.10	YES	
L0002820	0	0.17860E-06	377539.5	3747423.2	20.5	3.50	4.00	5.10	YES	
L0002821	0	0.17860E-06	377548.1	3747423.3	20.6	3.50	4.00	5.10	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002822 , L0002823 ,
	L0002824 , L0002825 , L0002826 , L0002827 , L0002828 , L0002829 , L0002830 , L0002831 ,
	L0002832 , L0002833 , L0002834 , L0002835 , L0002836 , L0002837 , L0002838 , L0002839 ,
	L0002840 , L0002841 , L0002842 , L0002843 , L0002844 , L0002845 , L0002846 , L0002847 ,
	L0002848 , L0002849 , L0002850 , L0002851 , L0002852 , L0002853 , L0002854 , L0002855 ,
	L0002856 , L0002857 , L0002858 , L0002859 , L0002860 , L0002861 , L0002862 , L0002863 ,
	L0002864 , L0002865 , L0002866 , L0002867 , L0002868 , L0002869 , L0002870 , L0002871 ,
	L0002872 , L0002873 , L0002874 , L0002875 , L0002876 , L0002877 , L0002878 , L0002879 ,
	L0002880 , L0002881 , L0002882 , L0002883 , L0002884 , L0002885 , L0002886 , L0002887 ,
	L0002888 , L0002889 , L0002890 , L0002891 , L0002892 , L0002893 , L0002894 , L0002895 ,
	L0002896 , L0002897 , L0002898 , L0002899 , L0002900 , L0002901 , L0002902 , L0002903 ,
	L0002904 , L0002905 , L0002906 , L0002907 , L0002908 , L0002909 , L0002910 , L0002911 ,
	L0002912 , L0002913 , L0002914 , L0002915 , L0002916 , L0002917 , L0002918 , L0002919 ,
	L0002920 , L0002921 , L0002922 , L0002923 , L0002924 , L0002925 , L0002926 , L0002927 ,
	L0002928 , L0002929 , L0002930 , L0002931 , L0002932 , L0002933 , L0002934 , L0002935 ,
	L0002936 , L0002937 , L0002938 , L0002939 , L0002940 , L0002941 , L0002942 , L0002943 ,
	L0002944 , L0002945 , L0002946 , L0002947 , L0002948 , L0002949 , L0002950 , L0002951 ,
	L0002952 , L0002953 , L0002954 , L0002955 , L0002956 , L0002957 , L0002958 , L0002959 ,
	L0002960 , L0002961 , L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 ,
	L0002968 , L0002969 , L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0002976 , L0002977 , L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 ,
	L0002984 , L0002985 , L0002986 , L0002987 , L0002988 , L0002989 , L0002990 , L0002991 ,
	L0002992 , L0002993 , L0002994 , L0002995 , L0002996 , L0002997 , L0002998 , L0002999 ,
	L0003000 , L0003001 , L0003002 , L0003003 , L0003004 , L0003005 , L0003006 , L0003007 ,
	L0003008 , L0003009 , L0003010 , L0003011 , L0003012 , L0003013 , L0003014 , L0003015 ,
	L0003016 , L0003017 , L0003018 , L0003019 , L0003020 , L0003021 , L0003022 , L0003023 ,
	L0003024 , L0003025 , L0003026 , L0003027 , L0003028 , L0003029 , L0003030 , L0003031 ,
	L0003032 , L0003033 , L0003034 , L0003035 , L0003036 , L0003037 , L0003038 , L0003039 ,
	L0003040 , L0003041 , L0003042 , L0003043 , L0003044 , L0003045 , L0003046 , L0003047 ,
	L0003048 , L0003049 , L0003050 , L0003051 , L0003052 , L0003053 , L0003054 , L0003055 ,
	L0003056 , L0003057 , L0003058 , L0003059 , L0003060 , L0003061 , L0003062 , L0003063 ,
	L0003064 , L0003065 , L0003066 , L0003067 , L0003068 , L0003069 , L0003070 , L0003071 ,
	L0003072 , L0003073 , L0003074 , L0003075 , L0003076 , L0003077 , L0003078 , L0003079 ,
	L0003080 , L0003081 , L0003082 , L0003083 , L0003084 , L0003085 , L0003086 , L0003087 ,
	L0003088 , L0003089 , L0003090 , L0003091 , L0003092 , L0003093 , L0003094 , L0003095 ,
	L0003096 , L0003097 , L0003098 , L0003099 , L0003100 , L0003101 , L0003102 , L0003103 ,
	L0003104 , L0003105 , L0003106 , L0003107 , L0003108 , L0003109 , L0003110 , L0003111 ,
	L0003112 , L0003113 , L0003114 , L0003115 , L0003116 , L0003117 , L0003118 , L0003119 ,
	L0003120 , L0003121 , L0003122 , L0003123 , L0003124 , L0003125 , L0003126 , L0003127 ,
	L0003128 , L0003129 , L0003130 , L0003131 , L0003132 , L0003133 , L0003134 , L0003135 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0003136 , L0002794 , L0002795 , L0002796 , L0002797 , L0002798 , L0002799 , L0002800 ,
	L0002801 , L0002802 , L0002803 , L0002804 , L0002805 , L0002806 , L0002807 , L0002808 ,
	L0002809 , L0002810 , L0002811 , L0002812 , L0002813 , L0002814 , L0002815 , L0002816 ,
	L0002817 , L0002818 , L0002819 , L0002820 , L0002821 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
	9818605.	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , L0002822 , L0002823 ,
		L0002824 , L0002825 , L0002826 , L0002827 , L0002828 , L0002829 , L0002830 , L0002831 ,
		L0002832 , L0002833 , L0002834 , L0002835 , L0002836 , L0002837 , L0002838 , L0002839 ,
		L0002840 , L0002841 , L0002842 , L0002843 , L0002844 , L0002845 , L0002846 , L0002847 ,
		L0002848 , L0002849 , L0002850 , L0002851 , L0002852 , L0002853 , L0002854 , L0002855 ,
		L0002856 , L0002857 , L0002858 , L0002859 , L0002860 , L0002861 , L0002862 , L0002863 ,
		L0002864 , L0002865 , L0002866 , L0002867 , L0002868 , L0002869 , L0002870 , L0002871 ,
		L0002872 , L0002873 , L0002874 , L0002875 , L0002876 , L0002877 , L0002878 , L0002879 ,
		L0002880 , L0002881 , L0002882 , L0002883 , L0002884 , L0002885 , L0002886 , L0002887 ,

L0002888 , L0002889 , L0002890 , L0002891 , L0002892 , L0002893 , L0002894 , L0002895 ,

L0002896 , L0002897 , L0002898 , L0002899 , L0002900 , L0002901 , L0002902 , L0002903 ,

L0002904 , L0002905 , L0002906 , L0002907 , L0002908 , L0002909 , L0002910 , L0002911 ,

L0002912 , L0002913 , L0002914 , L0002915 , L0002916 , L0002917 , L0002918 , L0002919 ,

L0002920 , L0002921 , L0002922 , L0002923 , L0002924 , L0002925 , L0002926 , L0002927 ,

L0002928 , L0002929 , L0002930 , L0002931 , L0002932 , L0002933 , L0002934 , L0002935 ,

L0002936 , L0002937 , L0002938 , L0002939 , L0002940 , L0002941 , L0002942 , L0002943 ,

L0002944 , L0002945 , L0002946 , L0002947 , L0002948 , L0002949 , L0002950 , L0002951 ,

L0002952 , L0002953 , L0002954 , L0002955 , L0002956 , L0002957 , L0002958 , L0002959 ,

L0002960 , L0002961 , L0002962 , L0002963 , L0002964 , L0002965 , L0002966 , L0002967 ,

L0002968 , L0002969 , L0002970 , L0002971 , L0002972 , L0002973 , L0002974 , L0002975 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0002976 , L0002977 , L0002978 , L0002979 , L0002980 , L0002981 , L0002982 , L0002983 ,

L0002984 , L0002985 , L0002986 , L0002987 , L0002988 , L0002989 , L0002990 , L0002991 ,

L0002992 , L0002993 , L0002994 , L0002995 , L0002996 , L0002997 , L0002998 , L0002999 ,

L0003000 , L0003001 , L0003002 , L0003003 , L0003004 , L0003005 , L0003006 , L0003007 ,

L0003008 , L0003009 , L0003010 , L0003011 , L0003012 , L0003013 , L0003014 , L0003015 ,

L0003016 , L0003017 , L0003018 , L0003019 , L0003020 , L0003021 , L0003022 , L0003023 ,

L0003024 , L0003025 , L0003026 , L0003027 , L0003028 , L0003029 , L0003030 , L0003031 ,

L0003032 , L0003033 , L0003034 , L0003035 , L0003036 , L0003037 , L0003038 , L0003039 ,

L0003040 , L0003041 , L0003042 , L0003043 , L0003044 , L0003045 , L0003046 , L0003047 ,

L0003048 , L0003049 , L0003050 , L0003051 , L0003052 , L0003053 , L0003054 , L0003055 ,

L0003056 , L0003057 , L0003058 , L0003059 , L0003060 , L0003061 , L0003062 , L0003063 ,

L0003064 , L0003065 , L0003066 , L0003067 , L0003068 , L0003069 , L0003070 , L0003071 ,

L0003072 , L0003073 , L0003074 , L0003075 , L0003076 , L0003077 , L0003078 , L0003079 ,

L0003080 , L0003081 , L0003082 , L0003083 , L0003084 , L0003085 , L0003086 , L0003087 ,

L0003088 , L0003089 , L0003090 , L0003091 , L0003092 , L0003093 , L0003094 , L0003095 ,

L0003096 , L0003097 , L0003098 , L0003099 , L0003100 , L0003101 , L0003102 , L0003103 ,

L0003104 , L0003105 , L0003106 , L0003107 , L0003108 , L0003109 , L0003110 , L0003111 ,

L0003112 , L0003113 , L0003114 , L0003115 , L0003116 , L0003117 , L0003118 , L0003119 ,

L0003120 , L0003121 , L0003122 , L0003123 , L0003124 , L0003125 , L0003126 , L0003127 ,

L0003128 , L0003129 , L0003130 , L0003131 , L0003132 , L0003133 , L0003134 , L0003135 ,

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

URBAN ID	URBAN POP	SOURCE IDs

L0003136 , L0002794 , L0002795 , L0002796 , L0002797 , L0002798 , L0002799 , L0002800 ,

L0002801 , L0002802 , L0002803 , L0002804 , L0002805 , L0002806 , L0002807 , L0002808 ,

L0002809 , L0002810 , L0002811 , L0002812 , L0002813 , L0002814 , L0002815 , L0002816 ,

L0002817 , L0002818 , L0002819 , L0002820 , L0002821 ,

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-105.2,	-101.5,	2	11.0,	262.6,	195.6,	-105.3,	-106.1,
3	11.0,	259.9,	226.2,	-102.2,	-107.4,	4	11.0,	249.4,	249.9,	-96.0,	-105.5,
5	11.0,	231.3,	266.0,	-86.8,	-100.5,	6	11.0,	206.2,	274.0,	-75.0,	-92.3,
7	11.0,	174.8,	273.8,	-60.9,	-81.3,	8	11.0,	138.1,	265.2,	-45.0,	-67.9,
9	11.0,	117.9,	249.9,	-28.2,	-43.0,	10	11.0,	159.0,	257.2,	-27.1,	-25.7,
11	11.0,	195.6,	262.6,	-25.2,	-7.5,	12	11.0,	226.2,	259.9,	-22.5,	10.9,
13	11.0,	249.9,	249.4,	-19.2,	29.0,	14	11.0,	266.0,	231.3,	-15.2,	46.2,
15	11.0,	274.0,	206.2,	-10.8,	62.0,	16	11.0,	273.8,	174.8,	-6.0,	75.9,
17	11.0,	265.2,	138.1,	-1.1,	87.5,	18	11.0,	249.9,	117.9,	-15.9,	96.7,
19	11.0,	257.2,	159.0,	-53.8,	101.5,	20	11.0,	262.6,	195.6,	-90.2,	106.1,
21	11.0,	259.9,	226.2,	-124.0,	107.4,	22	11.0,	249.4,	249.9,	-153.9,	105.5,
23	11.0,	231.3,	266.0,	-179.2,	100.5,	24	11.0,	206.2,	274.0,	-199.0,	92.3,
25	11.0,	174.8,	273.8,	-212.8,	81.3,	26	11.0,	138.1,	265.2,	-220.1,	67.9,
27	11.0,	117.9,	249.9,	-221.7,	43.0,	28	11.0,	159.0,	257.2,	-230.1,	25.7,
29	11.0,	195.6,	262.6,	-237.4,	7.5,	30	11.0,	226.2,	259.9,	-237.4,	-10.9,
31	11.0,	249.9,	249.4,	-230.2,	-29.0,	32	11.0,	266.0,	231.3,	-216.1,	-46.2,
33	11.0,	274.0,	206.2,	-195.4,	-62.0,	34	11.0,	273.8,	174.8,	-168.7,	-75.9,
35	11.0,	265.2,	138.1,	-137.0,	-87.5,	36	11.0,	249.9,	117.9,	-102.0,	-96.7,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-113.9,	-56.6,	2	11.0,	262.6,	195.6,	-121.6,	-63.4,
3	11.0,	259.9,	226.2,	-125.7,	-68.2,	4	11.0,	249.4,	249.9,	-125.9,	-71.0,
5	11.0,	231.3,	266.0,	-122.3,	-71.6,	6	11.0,	206.2,	274.0,	-115.0,	-70.1,
7	11.0,	174.8,	273.8,	-104.1,	-66.4,	8	11.0,	138.1,	265.2,	-90.2,	-60.7,
9	11.0,	117.9,	249.9,	-73.9,	-43.8,	10	11.0,	159.0,	257.2,	-72.0,	-34.4,
11	11.0,	195.6,	262.6,	-67.9,	-23.9,	12	11.0,	226.2,	259.9,	-61.7,	-12.6,
13	11.0,	249.9,	249.4,	-53.7,	-1.0,	14	11.0,	266.0,	231.3,	-44.0,	10.7,
15	11.0,	274.0,	206.2,	-33.0,	22.1,	16	11.0,	273.8,	174.8,	-21.0,	32.7,
17	11.0,	265.2,	138.1,	-8.3,	42.4,	18	11.0,	249.9,	117.9,	-15.2,	51.0,
19	11.0,	257.2,	159.0,	-45.1,	56.6,	20	11.0,	262.6,	195.6,	-73.9,	63.4,
21	11.0,	259.9,	226.2,	-100.5,	68.2,	22	11.0,	249.4,	249.9,	-124.0,	71.0,
23	11.0,	231.3,	266.0,	-143.7,	71.6,	24	11.0,	206.2,	274.0,	-159.1,	70.1,
25	11.0,	174.8,	273.8,	-169.6,	66.4,	26	11.0,	138.1,	265.2,	-175.0,	60.7,
27	11.0,	117.9,	249.9,	-176.0,	43.8,	28	11.0,	159.0,	257.2,	-185.2,	34.4,
29	11.0,	195.6,	262.6,	-194.7,	23.9,	30	11.0,	226.2,	259.9,	-198.2,	12.6,
31	11.0,	249.9,	249.4,	-195.7,	1.0,	32	11.0,	266.0,	231.3,	-187.3,	-10.7,
33	11.0,	274.0,	206.2,	-173.2,	-22.1,	34	11.0,	273.8,	174.8,	-153.8,	-32.7,
35	11.0,	265.2,	138.1,	-129.8,	-42.4,	36	11.0,	249.9,	117.9,	-102.7,	-51.0,

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-120.8,	-16.9,	2	11.0,	262.6,	195.6,	-135.3,	-25.5,
3	11.0,	259.9,	226.2,	-145.7,	-33.3,	4	11.0,	249.4,	249.9,	-151.7,	-40.0,
5	11.0,	231.3,	266.0,	-153.1,	-45.6,	6	11.0,	206.2,	274.0,	-149.8,	-49.8,
7	11.0,	174.8,	273.8,	-142.0,	-52.5,	8	11.0,	138.1,	265.2,	-129.8,	-53.6,

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   9   11.0,  117.9,  249.9, -114.2,  -43.6,     10   11.0,  159.0,  257.2, -111.7,  -41.2,
  11   11.0,  195.6,  262.6, -105.8,  -37.5,     12   11.0,  226.2,  259.9,  -96.7,  -32.6,
  13   11.0,  249.9,  249.4,  -84.6,  -26.8,     14   11.0,  266.0,  231.3,  -70.0,  -20.1,
  15   11.0,  274.0,  206.2,  -53.3,  -12.8,     16   11.0,  273.8,  174.8,  -34.9,   -5.1,
  17   11.0,  265.2,  138.1,  -15.5,    2.8,     18   11.0,  249.9,  117.9,  -15.3,   10.7,
  19   11.0,  257.2,  159.0,  -38.3,   16.9,     20   11.0,  262.6,  195.6,  -60.3,   25.5,
  21   11.0,  259.9,  226.2,  -80.5,   33.3,     22   11.0,  249.4,  249.9,  -98.2,   40.0,
  23   11.0,  231.3,  266.0, -112.9,   45.6,     24   11.0,  206.2,  274.0, -124.2,   49.8,
  25   11.0,  174.8,  273.8, -131.8,   52.5,     26   11.0,  138.1,  265.2, -135.3,   53.6,
  27   11.0,  117.9,  249.9, -135.7,   43.6,     28   11.0,  159.0,  257.2, -145.5,   41.2,
  29   11.0,  195.6,  262.6, -156.7,   37.5,     30   11.0,  226.2,  259.9, -163.2,   32.6,
  31   11.0,  249.9,  249.4, -164.8,   26.8,     32   11.0,  266.0,  231.3, -161.3,   20.1,
  33   11.0,  274.0,  206.2, -152.9,   12.8,     34   11.0,  273.8,  174.8, -139.9,    5.1,
  35   11.0,  265.2,  138.1, -122.6,   -2.8,     36   11.0,  249.9,  117.9, -102.6,  -10.7,


SOURCE ID: STCK4
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ    YADJ
   1   11.0,  257.2,  159.0, -125.9,   12.4,      2   11.0,  262.6,  195.6, -145.4,    2.4,
   3   11.0,  259.9,  226.2, -160.5,   -7.5,      4   11.0,  249.4,  249.9, -170.8,  -17.3,
   5   11.0,  231.3,  266.0, -175.8,  -26.5,      6   11.0,  206.2,  274.0, -175.5,  -35.0,
   7   11.0,  174.8,  273.8, -169.9,  -42.3,      8   11.0,  138.1,  265.2, -159.1,  -48.4,
   9   11.0,  117.9,  249.9, -143.9,  -43.6,     10   11.0,  159.0,  257.2, -141.0,  -46.4,
  11   11.0,  195.6,  262.6, -133.7,  -47.7,     12   11.0,  226.2,  259.9, -122.4,  -47.5,
  13   11.0,  249.9,  249.4, -107.4,  -45.8,     14   11.0,  266.0,  231.3,  -89.1,  -42.8,
  15   11.0,  274.0,  206.2,  -68.1,  -38.5,     16   11.0,  273.8,  174.8,  -45.1,  -33.0,
  17   11.0,  265.2,  138.1,  -20.6,  -26.5,     18   11.0,  249.9,  117.9,  -15.3,  -18.9,
  19   11.0,  257.2,  159.0,  -33.1,  -12.4,     20   11.0,  262.6,  195.6,  -50.1,   -2.4,
  21   11.0,  259.9,  226.2,  -65.6,    7.5,     22   11.0,  249.4,  249.9,  -79.1,   17.3,
  23   11.0,  231.3,  266.0,  -90.2,   26.5,     24   11.0,  206.2,  274.0,  -98.5,   35.0,
  25   11.0,  174.8,  273.8, -103.9,   42.3,     26   11.0,  138.1,  265.2, -106.1,   48.4,
  27   11.0,  117.9,  249.9, -106.0,   43.6,     28   11.0,  159.0,  257.2, -116.2,   46.4,
  29   11.0,  195.6,  262.6, -128.8,   47.7,     30   11.0,  226.2,  259.9, -137.5,   47.5,
  31   11.0,  249.9,  249.4, -142.0,   45.8,     32   11.0,  266.0,  231.3, -142.2,   42.8,
  33   11.0,  274.0,  206.2, -138.1,   38.5,     34   11.0,  273.8,  174.8, -129.7,   33.0,
  35   11.0,  265.2,  138.1, -117.5,   26.5,     36   11.0,  249.9,  117.9, -102.6,   18.9,


*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                    ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                    ***        09:28:36
                                                                                                               PAGE  19
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** DIRECTION SPECIFIC BUILDING DIMENSIONS ***


SOURCE ID: STCK5
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ    YADJ
   1   11.0,  257.2,  159.0, -132.3,   41.9,      2   11.0,  262.6,  195.6, -156.9,   30.5,
   3   11.0,  259.9,  226.2, -176.7,   18.1,      4   11.0,  249.4,  249.9, -191.1,    5.1,
   5   11.0,  231.3,  266.0, -199.7,   -8.0,      6   11.0,  206.2,  274.0, -202.3,  -20.9,
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7	11.0,	174.8,	273.8,	-198.7,	-33.1,	8	11.0,	138.1,	265.2,	-189.1,	-44.3,
9	11.0,	117.9,	249.9,	-174.2,	-44.8,	10	11.0,	159.0,	257.2,	-170.5,	-52.8,
11	11.0,	195.6,	262.6,	-161.7,	-59.1,	12	11.0,	226.2,	259.9,	-148.0,	-63.6,
13	11.0,	249.9,	249.4,	-129.8,	-66.2,	14	11.0,	266.0,	231.3,	-107.6,	-66.7,
15	11.0,	274.0,	206.2,	-82.2,	-65.3,	16	11.0,	273.8,	174.8,	-54.3,	-61.8,
17	11.0,	265.2,	138.1,	-24.7,	-56.5,	18	11.0,	249.9,	117.9,	-14.2,	-49.2,
19	11.0,	257.2,	159.0,	-26.7,	-41.9,	20	11.0,	262.6,	195.6,	-38.7,	-30.5,
21	11.0,	259.9,	226.2,	-49.5,	-18.1,	22	11.0,	249.4,	249.9,	-58.8,	-5.1,
23	11.0,	231.3,	266.0,	-66.3,	8.0,	24	11.0,	206.2,	274.0,	-71.8,	20.9,
25	11.0,	174.8,	273.8,	-75.1,	33.1,	26	11.0,	138.1,	265.2,	-76.1,	44.3,
27	11.0,	117.9,	249.9,	-75.8,	44.8,	28	11.0,	159.0,	257.2,	-86.7,	52.8,
29	11.0,	195.6,	262.6,	-100.8,	59.1,	30	11.0,	226.2,	259.9,	-111.9,	63.6,
31	11.0,	249.9,	249.4,	-119.6,	66.2,	32	11.0,	266.0,	231.3,	-123.6,	66.7,
33	11.0,	274.0,	206.2,	-124.0,	65.3,	34	11.0,	273.8,	174.8,	-120.5,	61.8,
35	11.0,	265.2,	138.1,	-113.4,	56.5,	36	11.0,	249.9,	117.9,	-103.7,	49.2,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	11.0,	257.2,	159.0,	-136.6,	73.5,	2	11.0,	262.6,	195.6,	-166.5,	60.8,
3	11.0,	259.9,	226.2,	-191.5,	46.3,	4	11.0,	249.4,	249.9,	-210.6,	30.4,
5	11.0,	231.3,	266.0,	-223.3,	13.5,	6	11.0,	206.2,	274.0,	-229.2,	-3.8,
7	11.0,	174.8,	273.8,	-228.2,	-21.0,	8	11.0,	138.1,	265.2,	-220.2,	-37.5,
9	11.0,	117.9,	249.9,	-206.0,	-43.5,	10	11.0,	159.0,	257.2,	-202.1,	-57.0,
11	11.0,	195.6,	262.6,	-192.1,	-68.8,	12	11.0,	226.2,	259.9,	-176.3,	-78.4,
13	11.0,	249.9,	249.4,	-155.1,	-85.6,	14	11.0,	266.0,	231.3,	-129.1,	-90.3,
15	11.0,	274.0,	206.2,	-99.3,	-92.2,	16	11.0,	273.8,	174.8,	-66.4,	-91.3,
17	11.0,	265.2,	138.1,	-31.6,	-87.6,	18	11.0,	249.9,	117.9,	-15.5,	-81.0,
19	11.0,	257.2,	159.0,	-22.5,	-73.5,	20	11.0,	262.6,	195.6,	-29.0,	-60.8,
21	11.0,	259.9,	226.2,	-34.7,	-46.3,	22	11.0,	249.4,	249.9,	-39.3,	-30.4,
23	11.0,	231.3,	266.0,	-42.7,	-13.5,	24	11.0,	206.2,	274.0,	-44.8,	3.8,
25	11.0,	174.8,	273.8,	-45.6,	21.0,	26	11.0,	138.1,	265.2,	-45.0,	37.5,
27	11.0,	117.9,	249.9,	-43.9,	43.5,	28	11.0,	159.0,	257.2,	-55.1,	57.0,
29	11.0,	195.6,	262.6,	-70.4,	68.8,	30	11.0,	226.2,	259.9,	-83.7,	78.4,
31	11.0,	249.9,	249.4,	-94.4,	85.6,	32	11.0,	266.0,	231.3,	-102.2,	90.3,
33	11.0,	274.0,	206.2,	-106.9,	92.2,	34	11.0,	273.8,	174.8,	-108.4,	91.3,
35	11.0,	265.2,	138.1,	-106.5,	87.6,	36	11.0,	249.9,	117.9,	-102.4,	81.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

376999.0, 377086.3, 377173.6, 377260.9, 377348.2, 377435.5, 377522.8, 377610.1, 377697.4, 377784.7,
377872.0, 377959.3, 378046.6, 378133.9, 378221.2, 378308.5, 378395.8, 378483.1, 378570.4, 378657.7,
378745.0,

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

3746986.6, 3747043.0, 3747099.4, 3747155.8, 3747212.2, 3747268.5, 3747324.9, 3747381.3, 3747437.7, 3747494.1,
3747550.4, 3747606.8, 3747663.2, 3747719.6, 3747776.0, 3747832.3, 3747888.7, 3747945.1, 3748001.5, 3748057.9,
3748114.2,

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 376998.97	377086.27	377173.57	377260.87	377348.17	377435.47	377522.77	377610.07	377697.37
3748114.24	18.30	18.50	19.10	19.90	20.30	20.10	19.80	19.60	19.40
3748057.86	25.50	18.60	18.90	19.10	19.50	19.60	19.70	19.70	19.60
3748001.48	19.20	25.90	25.00	19.80	20.00	20.80	20.10	19.90	20.10
3747945.10	18.10	19.60	25.20	26.60	23.40	22.60	20.00	20.10	20.10
3747888.72	18.30	18.60	21.80	20.80	23.70	25.60	21.70	19.80	19.80
3747832.34	18.40	18.70	20.00	20.80	20.80	20.60	23.60	23.50	19.90
3747775.96	18.40	18.70	19.50	21.00	20.70	19.90	19.90	19.80	22.80
3747719.58	18.60	19.10	19.80	20.70	20.80	20.50	20.30	19.90	19.20
3747663.20	18.50	18.80	19.20	20.20	20.50	20.70	19.80	19.70	19.20
3747606.82	18.50	18.70	19.10	19.40	20.00	20.40	19.70	19.60	19.30
3747550.44	18.40	18.50	18.60	18.50	19.80	20.20	19.70	19.70	19.60
3747494.06	18.40	18.40	18.30	18.20	19.90	20.20	19.60	19.80	19.80
3747437.68	18.70	18.60	18.40	18.50	19.20	19.90	19.90	20.00	19.80
3747381.30	18.90	18.50	18.20	18.60	19.00	19.60	20.40	20.20	19.60
3747324.92	19.30	18.60	18.00	18.30	18.90	19.30	20.40	19.70	19.60
3747268.54	18.90	18.50	18.00	17.80	18.50	19.30	19.60	19.50	19.20
3747212.16	19.20	19.10	18.40	18.20	19.50	20.00	20.00	19.20	18.50
3747155.78	19.50	19.50	19.60	19.70	22.00	21.80	21.10	21.90	19.80
3747099.40	18.90	18.80	19.90	20.20	21.90	21.80	21.40	21.90	21.30
3747043.02	18.60	18.40	20.30	20.10	20.70	20.70	20.90	20.80	21.30
3746986.64	19.40	18.30	20.10	19.90	13.80	13.50	20.90	20.60	20.70

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	19.20	19.10	18.90	18.80	18.70	18.70	18.20	17.60	17.60
3748057.86	19.60	19.50	19.40	19.20	18.90	18.60	18.30	18.00	17.80
3748001.48	19.90	19.50	19.50	19.80	19.20	18.80	18.70	18.30	18.00
3747945.10	19.60	19.20	19.40	20.10	19.10	19.00	18.90	18.50	18.10
3747888.72	19.20	19.10	19.20	20.10	19.60	19.40	19.00	18.60	18.30
3747832.34	19.10	19.00	19.60	19.90	19.90	19.30	19.30	19.20	18.90
3747775.96	22.70	19.10	19.40	19.60	20.10	19.50	19.20	18.80	18.60
3747719.58	19.90	24.00	23.10	20.00	20.10	19.50	19.30	19.00	18.60
3747663.20	19.10	19.40	22.60	25.80	21.30	19.40	19.20	18.80	18.50
3747606.82	19.60	19.30	19.50	20.30	23.70	25.00	19.90	18.80	18.80
3747550.44	19.70	19.30	19.20	19.50	19.90	19.90	24.50	22.10	18.80
3747494.06	19.50	19.30	19.10	19.50	20.00	19.20	20.00	20.60	22.40
3747437.68	19.50	18.90	18.60	19.30	19.90	20.00	20.10	20.00	20.10
3747381.30	19.40	19.00	18.80	19.10	20.10	20.10	20.10	19.70	19.90
3747324.92	19.40	19.30	19.50	19.70	20.00	20.10	19.90	19.60	19.70
3747268.54	19.10	18.90	19.60	19.70	20.00	20.10	19.80	19.40	19.60
3747212.16	18.10	18.70	19.30	19.70	20.20	20.10	19.80	19.50	19.10
3747155.78	17.40	22.30	22.60	23.40	20.30	20.40	20.40	20.90	20.10
3747099.40	17.60	20.00	20.30	23.20	20.10	20.50	20.60	20.10	20.00
3747043.02	17.70	17.40	18.60	23.30	19.60	20.00	19.80	20.30	20.40
3746986.64	17.60	16.20	19.00	22.70	19.60	19.70	20.00	19.90	20.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	16.40	16.00	16.70
3748057.86	17.10	17.30	17.10
3748001.48	17.70	17.20	17.20
3747945.10	17.60	17.40	17.40
3747888.72	18.10	17.40	17.50
3747832.34	17.90	17.50	17.40
3747775.96	17.90	17.60	17.30
3747719.58	18.00	17.70	17.50

3747663.20	18.10	17.70	17.80
3747606.82	18.20	17.80	17.90
3747550.44	18.20	18.00	17.90
3747494.06	19.90	18.50	18.30
3747437.68	21.40	22.40	20.70
3747381.30	20.10	21.00	22.10
3747324.92	19.80	19.20	18.50
3747268.54	19.20	19.00	18.70
3747212.16	18.80	18.60	18.40
3747155.78	19.20	19.40	19.10
3747099.40	18.90	19.30	19.00
3747043.02	19.20	19.20	18.60
3746986.64	20.00	20.00	18.90

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 376998.97	377086.27	377173.57	377260.87	377348.17	377435.47	377522.77	377610.07	377697.37
3748114.24	25.50	18.50	19.10	19.90	20.30	20.10	19.80	19.60	19.40
3748057.86	25.50	26.00	26.20	19.10	19.50	19.60	19.70	19.70	19.60
3748001.48	25.70	25.90	26.20	26.60	20.00	20.80	20.10	19.90	20.10
3747945.10	25.50	26.20	25.20	26.60	26.50	22.60	20.00	20.10	20.10
3747888.72	18.30	24.40	21.80	26.60	26.50	25.60	24.80	19.80	19.80
3747832.34	18.40	18.70	20.00	20.80	20.80	25.50	23.60	23.50	19.90
3747775.96	18.40	18.70	19.50	21.00	20.70	19.90	19.90	23.50	22.80
3747719.58	18.60	19.10	19.80	20.70	20.80	20.50	20.30	19.90	19.20
3747663.20	18.50	18.80	19.20	20.20	20.50	20.70	19.80	19.70	19.20
3747606.82	18.50	18.70	19.10	19.40	20.00	20.40	19.70	19.60	19.30
3747550.44	18.40	18.50	18.60	18.50	19.80	20.20	19.70	19.70	19.60
3747494.06	18.40	18.40	18.30	18.20	19.90	20.20	19.60	19.80	19.80
3747437.68	18.70	18.60	18.40	18.50	19.20	19.90	19.90	20.00	19.80
3747381.30	18.90	18.50	18.20	18.60	19.00	19.60	20.40	20.20	19.60
3747324.92	19.30	18.60	18.00	18.30	18.90	19.30	20.40	19.70	19.60
3747268.54	18.90	18.50	18.00	17.80	18.50	19.30	19.60	19.50	19.20
3747212.16	19.20	19.10	18.40	18.20	19.50	20.00	20.00	19.20	18.50
3747155.78	19.50	19.50	19.60	19.70	22.00	21.80	21.10	21.90	19.80
3747099.40	18.90	18.80	19.90	20.20	21.90	21.80	21.40	21.90	21.30
3747043.02	18.60	18.40	20.30	20.10	20.70	20.70	20.90	20.80	21.30
3746986.64	19.40	18.30	20.10	19.90	20.60	21.70	20.90	20.60	20.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	19.20	19.10	18.90	18.80	18.70	18.70	18.20	17.60	17.60
3748057.86	19.60	19.50	19.40	19.20	18.90	18.60	18.30	18.00	17.80
3748001.48	19.90	19.50	19.50	19.80	19.20	18.80	18.70	18.30	18.00
3747945.10	19.60	19.20	19.40	20.10	19.10	19.00	18.90	18.50	18.10
3747888.72	19.20	19.10	19.20	20.10	19.60	19.40	19.00	18.60	18.30
3747832.34	19.10	19.00	19.60	19.90	19.90	19.30	19.30	19.20	18.90
3747775.96	23.10	24.00	19.40	19.60	20.10	19.50	19.20	18.80	18.60
3747719.58	23.40	24.00	24.90	26.00	20.10	19.50	19.30	19.00	18.60
3747663.20	19.10	24.50	25.30	25.80	24.70	25.90	19.20	18.80	18.50
3747606.82	19.60	19.30	19.50	26.20	26.20	25.00	25.10	18.80	18.80
3747550.44	19.70	19.30	19.20	19.50	25.50	25.80	24.50	22.10	22.20
3747494.06	19.50	19.30	19.10	19.50	20.00	19.20	20.00	23.90	22.40
3747437.68	19.50	18.90	18.60	19.30	19.90	20.00	20.10	20.00	20.10
3747381.30	19.40	19.00	18.80	19.10	20.10	20.10	20.10	19.70	19.90
3747324.92	19.40	19.30	19.50	19.70	20.00	20.10	19.90	19.60	19.70
3747268.54	19.10	18.90	19.60	19.70	20.00	20.10	19.80	19.40	19.60
3747212.16	18.10	24.50	19.30	22.80	20.20	20.10	19.80	19.50	19.10
3747155.78	24.30	24.50	22.60	23.40	20.30	20.40	20.40	20.90	20.10
3747099.40	24.30	24.30	20.30	23.20	20.10	20.50	20.60	20.10	20.00
3747043.02	24.30	17.40	18.60	23.30	19.60	20.00	19.80	20.30	20.40
3746986.64	22.90	21.40	19.00	22.70	19.60	19.70	20.00	19.90	20.50

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 378570.37	378657.67	378744.97
3748114.24	16.40	16.00	16.70
3748057.86	17.10	17.30	17.10
3748001.48	17.70	17.20	17.20
3747945.10	17.60	17.40	17.40
3747888.72	18.10	17.40	17.50

```
 3747832.34 |         17.90        17.50        17.40
 3747775.96 |         17.90        17.60        17.30
 3747719.58 |         18.00        17.70        17.50
 3747663.20 |         18.10        17.70        17.80
 3747606.82 |         18.20        17.80        17.90
 3747550.44 |         18.20        18.00        17.90
 3747494.06 |         19.90        18.50        18.30
 3747437.68 |         21.40        22.40        23.30
 3747381.30 |         20.10        21.00        24.00
 3747324.92 |         19.80        19.20        18.50
 3747268.54 |         19.20        19.00        18.70
 3747212.16 |         18.80        18.60        18.40
 3747155.78 |         19.20        19.40        19.10
 3747099.40 |         18.90        19.30        19.00
 3747043.02 |         19.20        19.20        18.60
 3746986.64 |         20.00        20.00        18.90

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                  ***        09:28:36
                                                                                                              PAGE  27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

    ( 377146.6, 3747291.4,      18.2,      18.2,       0.0);        ( 377230.5, 3747442.5,      18.1,      18.1,       0.0);
    ( 377253.4, 3747498.1,      18.2,      18.2,       0.0);        ( 377259.3, 3747543.7,      18.5,      18.5,       0.0);
    ( 377259.3, 3747621.9,      19.6,      19.6,       0.0);        ( 377260.6, 3747704.7,      20.6,      20.6,       0.0);
    ( 378132.2, 3747267.4,      20.0,      20.0,       0.0);        ( 378294.5, 3747265.7,      19.8,      19.8,       0.0);

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                  ***        09:28:36
                                                                                                              PAGE  28
*** 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          - - RECEPTOR LOCATION - -         DISTANCE
                            ID            XR (METERS)   YR (METERS)        (METERS)
                        - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

                         L0002888            377260.9     3747437.7           -4.03

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                  ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                  ***        09:28:36
                                                                                                              PAGE  29
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 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\KHHR_V9_ADJU\KHHR_v9.SFC Met Version: 16216
Profile file: E:\New MET data\KHHR_V9_ADJU\KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3167 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	283.8	2.0
12	01	01	1	02	-2.1	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	305.	7.9	283.1	2.0
12	01	01	1	03	-9.0	0.127	-9.000	-9.000	-999.	109.	20.8	0.24	2.79	1.00	1.18	323.	7.9	282.5	2.0
12	01	01	1	04	-2.2	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	296.	7.9	282.0	2.0
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	06	-6.0	0.103	-9.000	-9.000	-999.	80.	16.7	0.24	2.79	1.00	0.97	321.	7.9	281.4	2.0
12	01	01	1	07	-4.3	0.088	-9.000	-9.000	-999.	63.	14.4	0.24	2.79	1.00	0.82	313.	7.9	280.4	2.0
12	01	01	1	08	15.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	0.55	0.00	0.	7.9	281.4	2.0
12	01	01	1	09	35.7	0.115	0.353	0.013	45.	93.	-3.8	0.24	2.79	0.32	0.63	179.	7.9	285.4	2.0
12	01	01	1	10	109.0	0.141	0.727	0.009	128.	127.	-2.3	0.24	2.79	0.24	0.70	170.	7.9	289.2	2.0
12	01	01	1	11	164.4	0.149	1.186	0.005	370.	138.	-1.8	0.24	2.79	0.21	0.70	222.	7.9	297.0	2.0
12	01	01	1	12	191.7	0.163	1.525	0.005	672.	158.	-2.1	0.24	2.79	0.20	0.79	12.	7.9	299.9	2.0

```
12 01 01   1 13  191.3  0.170  1.819  0.005 1144.  168.     -2.3  0.24   2.79   0.20    0.84  260.    7.9  300.9    2.0
12 01 01   1 14  161.6  0.344  1.852  0.005 1428.  483.    -22.7  0.24   2.79   0.21    2.49  260.    7.9  298.8    2.0
12 01 01   1 15  105.0  0.367  1.638  0.005 1521.  534.    -42.8  0.24   2.79   0.24    2.84  292.    7.9  293.8    2.0
12 01 01   1 16   29.7  0.383  1.079  0.005 1539.  570.   -172.5  0.24   2.79   0.33    3.22  276.    7.9  290.4    2.0
12 01 01   1 17  -24.8  0.287 -9.000 -9.000 -999.  374.     90.3  0.24   2.79   0.59    2.52  284.    7.9  289.2    2.0
12 01 01   1 18  -26.7  0.269 -9.000 -9.000 -999.  336.     79.8  0.24   2.79   1.00    2.38  285.    7.9  287.5    2.0
12 01 01   1 19  -10.2  0.137 -9.000 -9.000 -999.  133.     22.7  0.24   2.79   1.00    1.26  287.    7.9  287.5    2.0
12 01 01   1 20   -6.2  0.106 -9.000 -9.000 -999.   83.     17.2  0.24   2.79   1.00    0.99  303.    7.9  287.0    2.0
12 01 01   1 21   -7.6  0.117 -9.000 -9.000 -999.   96.     19.1  0.24   2.79   1.00    1.09  326.    7.9  286.4    2.0
12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    7.9 1 -999.  -99.00   283.8   99.0  -99.00  -99.00

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

*** AERMOD - VERSION 21112  ***   *** 190th St Warehouse 2nd 14 YR                                          ***        08/29/22
*** AERMET - VERSION  16216 ***   *** DPM concentrations 2041-2054                                          ***        09:28:36
                                                                                                                     PAGE  31
*** 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       , STCK5       ,
               STCK6       , L0002822    , L0002823    , L0002824    , L0002825    , L0002826    , L0002827    , L0002828    ,
               L0002829    , L0002830    , L0002831    , L0002832    , L0002833    , L0002834    , L0002835    , L0002836    ,
               L0002837    , L0002838    , L0002839    , L0002840    , L0002841    , L0002842    , L0002843    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |    376998.97    377086.27    377173.57    377260.87    377348.17    377435.47    377522.77    377610.07    377697.37
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3748114.24 |       0.00009      0.00010      0.00011      0.00012      0.00012      0.00012      0.00012      0.00012      0.00011
 3748057.86 |       0.00009      0.00012      0.00013      0.00013      0.00014      0.00014      0.00014      0.00014      0.00013
 3748001.48 |       0.00012      0.00011      0.00012      0.00016      0.00016      0.00016      0.00016      0.00016      0.00015
 3747945.10 |       0.00013      0.00015      0.00014      0.00015      0.00018      0.00018      0.00020      0.00019      0.00018
 3747888.72 |       0.00015      0.00018      0.00020      0.00024      0.00022      0.00020      0.00022      0.00023      0.00021
 3747832.34 |       0.00017      0.00021      0.00025      0.00034      0.00033      0.00030      0.00025      0.00024      0.00026
 3747775.96 |       0.00019      0.00024      0.00030      0.00045      0.00043      0.00037      0.00035      0.00034      0.00029
 3747719.58 |       0.00022      0.00028      0.00036      0.00053      0.00052      0.00046      0.00044      0.00042      0.00039
 3747663.20 |       0.00025      0.00032      0.00042      0.00063      0.00065      0.00058      0.00057      0.00053      0.00049
 3747606.82 |       0.00027      0.00036      0.00050      0.00076      0.00083      0.00079      0.00076      0.00071      0.00066
 3747550.44 |       0.00030      0.00041      0.00058      0.00092      0.00111      0.00118      0.00111      0.00101      0.00089
 3747494.06 |       0.00033      0.00046      0.00067      0.00118      0.00173      0.00181      0.00180      0.00156      0.00117
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3747437.68	0.00036	0.00049	0.00075	0.00160	0.00284	0.00370	0.00375	0.00297	0.00135
3747381.30	0.00038	0.00052	0.00078	0.00160	0.00181	0.00315	0.00322	0.00261	0.00139
3747324.92	0.00041	0.00054	0.00079	0.00155	0.00153	0.00220	0.00196	0.00179	0.00123
3747268.54	0.00054	0.00067	0.00088	0.00136	0.00175	0.00182	0.00179	0.00170	0.00121
3747212.16	0.00048	0.00059	0.00076	0.00102	0.00146	0.00163	0.00161	0.00121	0.00097
3747155.78	0.00035	0.00045	0.00058	0.00074	0.00092	0.00111	0.00108	0.00086	0.00070
3747099.40	0.00030	0.00038	0.00047	0.00059	0.00072	0.00085	0.00085	0.00071	0.00057
3747043.02	0.00026	0.00032	0.00040	0.00049	0.00060	0.00070	0.00069	0.00060	0.00049
3746986.64	0.00022	0.00027	0.00034	0.00041	0.00048	0.00055	0.00057	0.00050	0.00042

*** 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 , STCK5 ,
STCK6 , L0002822 , L0002823 , L0002824 , L0002825 , L0002826 , L0002827 , L0002828 ,
L0002829 , L0002830 , L0002831 , L0002832 , L0002833 , L0002834 , L0002835 , L0002836 ,
L0002837 , L0002838 , L0002839 , L0002840 , L0002841 , L0002842 , L0002843 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 377784.67	377871.97	377959.27	378046.57	378133.87	378221.17	378308.47	378395.77	378483.07
3748114.24	0.00011	0.00010	0.00009	0.00009	0.00008	0.00008	0.00007	0.00007	0.00006
3748057.86	0.00012	0.00011	0.00010	0.00010	0.00009	0.00008	0.00008	0.00007	0.00007
3748001.48	0.00014	0.00013	0.00012	0.00011	0.00010	0.00009	0.00008	0.00008	0.00007
3747945.10	0.00016	0.00015	0.00014	0.00012	0.00011	0.00010	0.00009	0.00008	0.00008
3747888.72	0.00020	0.00018	0.00016	0.00014	0.00013	0.00011	0.00010	0.00009	0.00008
3747832.34	0.00023	0.00021	0.00019	0.00017	0.00015	0.00013	0.00011	0.00010	0.00009
3747775.96	0.00027	0.00025	0.00022	0.00019	0.00017	0.00014	0.00012	0.00011	0.00010
3747719.58	0.00035	0.00030	0.00027	0.00023	0.00019	0.00016	0.00014	0.00012	0.00010
3747663.20	0.00045	0.00039	0.00032	0.00027	0.00022	0.00017	0.00015	0.00013	0.00011
3747606.82	0.00057	0.00047	0.00037	0.00029	0.00024	0.00020	0.00016	0.00014	0.00012
3747550.44	0.00072	0.00055	0.00041	0.00032	0.00025	0.00020	0.00018	0.00015	0.00013
3747494.06	0.00083	0.00060	0.00044	0.00034	0.00027	0.00022	0.00018	0.00016	0.00015
3747437.68	0.00089	0.00063	0.00047	0.00036	0.00029	0.00024	0.00020	0.00018	0.00016
3747381.30	0.00093	0.00068	0.00051	0.00040	0.00032	0.00027	0.00023	0.00020	0.00018
3747324.92	0.00094	0.00073	0.00058	0.00046	0.00039	0.00033	0.00029	0.00027	0.00025
3747268.54	0.00105	0.00092	0.00081	0.00071	0.00064	0.00059	0.00055	0.00053	0.00051
3747212.16	0.00083	0.00074	0.00066	0.00059	0.00053	0.00048	0.00045	0.00043	0.00041
3747155.78	0.00056	0.00047	0.00041	0.00036	0.00031	0.00028	0.00025	0.00023	0.00021
3747099.40	0.00046	0.00038	0.00032	0.00027	0.00024	0.00021	0.00019	0.00017	0.00015
3747043.02	0.00039	0.00032	0.00026	0.00022	0.00019	0.00017	0.00015	0.00014	0.00013
3746986.64	0.00034	0.00027	0.00023	0.00019	0.00016	0.00014	0.00013	0.00012	0.00011

*** 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 , STCK5 ,
STCK6 , L0002822 , L0002823 , L0002824 , L0002825 , L0002826 , L0002827 , L0002828 ,
L0002829 , L0002830 , L0002831 , L0002832 , L0002833 , L0002834 , L0002835 , L0002836 ,
L0002837 , L0002838 , L0002839 , L0002840 , L0002841 , L0002842 , L0002843 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	378570.37	378657.67	378744.97
3748114.24	0.00006	0.00005	0.00005
3748057.86	0.00006	0.00006	0.00005
3748001.48	0.00007	0.00006	0.00006
3747945.10	0.00007	0.00007	0.00006
3747888.72	0.00008	0.00007	0.00006
3747832.34	0.00008	0.00007	0.00007
3747775.96	0.00009	0.00008	0.00007
3747719.58	0.00009	0.00008	0.00008
3747663.20	0.00010	0.00009	0.00008
3747606.82	0.00011	0.00009	0.00008
3747550.44	0.00011	0.00010	0.00009
3747494.06	0.00012	0.00011	0.00010
3747437.68	0.00014	0.00013	0.00011
3747381.30	0.00017	0.00015	0.00013
3747324.92	0.00023	0.00021	0.00017
3747268.54	0.00049	0.00047	0.00040
3747212.16	0.00039	0.00037	0.00030
3747155.78	0.00019	0.00018	0.00014
3747099.40	0.00014	0.00013	0.00011
3747043.02	0.00011	0.00010	0.00009
3746986.64	0.00010	0.00009	0.00008

*** AERMOD - VERSION 21112 *** *** 190th St Warehouse 2nd 14 YR *** 08/29/22
*** AERMET - VERSION 16216 *** *** DPM concentrations 2041-2054 *** 09:28:36

*** 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 , STCK5 ,
STCK6 , L0002822 , L0002823 , L0002824 , L0002825 , L0002826 , L0002827 , L0002828 ,
L0002829 , L0002830 , L0002831 , L0002832 , L0002833 , L0002834 , L0002835 , L0002836 ,
L0002837 , L0002838 , L0002839 , L0002840 , L0002841 , L0002842 , L0002843 , . . . ,

*** 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
377146.65	3747291.37	0.00073	377230.47	3747442.55	0.00110
377253.39	3747498.09	0.00108	377259.26	3747543.71	0.00093
377259.26	3747621.90	0.00071	377260.56	3747704.66	0.00056
378132.19	3747267.37	0.00066	378294.52	3747265.66	0.00060

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

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00375 AT (377522.77, 3747437.68, 19.90, 19.90, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00370 AT (377435.47, 3747437.68, 19.90, 19.90, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00322 AT (377522.77, 3747381.30, 20.40, 20.40, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00315 AT (377435.47, 3747381.30, 19.60, 19.60, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00297 AT (377610.07, 3747437.68, 20.00, 20.00, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00284 AT (377348.17, 3747437.68, 19.20, 19.20, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00261 AT (377610.07, 3747381.30, 20.20, 20.20, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00220 AT (377435.47, 3747324.92, 19.30, 19.30, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00196 AT (377522.77, 3747324.92, 20.40, 20.40, 0.00)	GC	UCART1
	10TH HIGHEST VALUE IS	0.00182 AT (377435.47, 3747268.54, 19.30, 19.30, 0.00)	GC	UCART1

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

*** Message Summary : AERMOD Model Execution ***

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

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A Total of            0 Fatal Error Message(s)
A Total of            8 Warning Message(s)
A Total of         1474 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     480        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     481        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     482        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     483        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     484        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     485        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186    1075       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1075       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ***********************************
   *** AERMOD Finishes Successfully ***
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EMFAC2021 for South Coast AQMD PM2.5 Running and Idling Exhaust Averages at bottom of the sheet

Area	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	2024 (gms/mile)	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)
South Coast AQMD	*Annual*	*LHDT2*	*DSL*	Aggregated	*0*	0.777688	0.777509	0.777544	0.777539	0.77765	0.777228	0.776552	0.772631	0.770784	0.768303	0.765381	0.761339
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	5	0.065732	0.060612	0.056486	0.053235	0.050727	0.048784	0.047295	0.046041	0.04507	0.044345	0.043925	0.043383
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	10	0.054347	0.050289	0.04702	0.044449	0.042473	0.040952	0.039803	0.03887	0.03818	0.037707	0.037493	0.037198
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	35	0.02193	0.020552	0.019459	0.018621	0.017998	0.017541	0.017219	0.016983	0.016838	0.016776	0.01681	0.016819
South Coast AQMD	*Annual*	*MHDT*	*DSL*	Aggregated	*0*	0.07273	0.060303	0.049764	0.041162	0.034359	0.028849	0.024397	0.020752	0.018038	0.015804	0.014045	0.012547
South Coast AQMD	Annual	MHDT	DSL	Aggregated	5	0.047035	0.039388	0.032878	0.027462	0.023065	0.019496	0.016589	0.014187	0.012242	0.010647	0.009378	0.008311
South Coast AQMD	Annual	MHDT	DSL	Aggregated	10	0.038328	0.032074	0.026749	0.022318	0.018721	0.015799	0.013418	0.011449	0.009852	0.008541	0.007498	0.006618
South Coast AQMD	Annual	MHDT	DSL	Aggregated	35	0.008966	0.007687	0.006597	0.005684	0.004945	0.004336	0.003836	0.003412	0.003062	0.002766	0.002529	0.002319
South Coast AQMD	*Annual*	*HHDT*	*DSL*	Aggregated	*0*	0.015375	0.014634	0.013923	0.013343	0.012838	0.012276	0.011792	0.011375	0.011065	0.010815	0.010558	0.010383
South Coast AQMD	Annual	HHDT	DSL	Aggregated	5	0.014315	0.013927	0.013603	0.013294	0.013002	0.012669	0.012344	0.012015	0.011674	0.011385	0.011096	0.010891
South Coast AQMD	Annual	HHDT	DSL	Aggregated	10	0.012166	0.011786	0.011464	0.01116	0.010875	0.010558	0.01025	0.009941	0.009624	0.009354	0.009087	0.008898
South Coast AQMD	Annual	HHDT	DSL	Aggregated	35	0.008261	0.007966	0.00773	0.007515	0.00732	0.007119	0.006927	0.006736	0.006543	0.006372	0.006207	0.006082

	14 yr 2027-2040 **5 mph**	**14 yr** 2027-2040 **10 mph**	**14 yr** 2027-2040 **35 mph**	**14 yr** 2027-2040 **0 mph (idling)**
LHDT2	0.04554	0.03871	0.01716	0.76775
MHDT	0.01234	0.00993	0.00305	0.01857
HHDT	0.01154	0.00948	0.00644	0.01107

	14 yr 2041-2054 **5 mph**	**14 yr** 2041-2054 **10 mph**	**14 yr** 2041-2054 **35 mph**	**14 yr** 2041-2054 **0 mph (idling)**
LHDT2	0.04075	0.03537	0.01654	0.76173
MHDT	0.00414	0.00320	0.00151	0.00731
HHDT	0.01010	0.00818	0.00564	0.00973

	2 yr 2025-2026 **5 mph**	**2 yr** 2025-2026 **10 mph**	**2 yr** 2025-2026 **35 mph**	**2 yr** 2025-2026 **0 mph (idling)**
LHDT2	0.05855	0.04865	0.02001	0.77753
MHDT	0.03613	0.02941	0.00714	0.05503
HHDT	0.01376	0.01163	0.00785	0.01428

	1 yr 2024 **5 mph**	**1 yr** 2024 **10 mph**	**1 yr** 2024 **35 mph**	**1 yr** 2024 **0 mph (idling)**
LHDT2	0.08144	0.05435	0.02193	0.77769
MHDT	0.06814	0.03833	0.00897	0.07273
HHDT	0.02111	0.01217	0.00826	0.01537

2036 (gms/mile)	2037 (gms/mile)	2038 (gms/mile)	2039 (gms/mile)	2040 (gms/mile)	2041 (gms/mile)	2042 (gms/mile)	2043 (gms/mile)	2044 (gms/mile)	2045 (gms/mile)	2046 (gms/mile)	2047 (gms/mile)	2048 (gms/mile)	2049 (gms/mile)	2050 (gms/mile)	2051 (gms/mile)	2052 (gms/mile)	2053 (gms/mile)	2054 (gms/mile)
0.76085	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
0.043392	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
0.037256	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
0.016923	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
0.011458	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
0.007445	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
0.005911	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
0.002176	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
0.010261	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
0.010738	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
0.008758	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
0.005994	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

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