WHITTIER BOULEVARD BUSINESS PARK AIR QUALITY, GLOBAL CLIMATE CHANGE, HRA, AND ENERGY IMPACT ANALYSIS

City of Whittier

February 11, 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, global climate change, health risk assessment, and energy impact analysis is to provide an assessment of the impacts resulting from development of the proposed Whittier Boulevard Business Park 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).

Given the temporary and short-term construction schedule, the project would not result in a long-term (i.e., lifetime or 30-year) exposure to TACs 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. Therefore, impacts from TACs during construction would be less than significant.

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 or toxic air contaminant (TAC) impacts 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). The Diesel Emissions Health Risk Assessment conducted for this project showed that DPM emissions from project-related truck trips will not cause a significantly elevated cancer risk or significant non-cancer-related health risk to nearby receptors. 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 would not exceed the SCAQMD screening threshold of 10,000 MTCO2e per year for industrial uses.

Furthermore, the project's GHG emissions would not exceed the SCAQMD screening threshold (based on EO S-3-05). The project would not conflict with the goals of AB-32, SB-32, or the CARB Scoping 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 the Whittier Boulevard Business Park 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
- analysis of the construction related air quality and greenhouse gas emissions
- analysis of the operations related air quality and greenhouse gas emissions
- discussion of the health risk impacts
- 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 Whittier 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 13.49-acre project site is located at 12352 Whittier Boulevard in the City of Whittier, California. The project site is currently developed with a 213,430 square foot industrial building formerly used for manufacturing. The existing industrial building is no longer in operation. A vicinity map showing the project location is provided on Figure 1.

PROJECT DESCRIPTION

The proposed project involves demolition of the existing building and construction of a new building for industrial and warehousing uses totaling 294,800 square feet of floor area ["the project"]. Vehicular access is proposed at the Whittier Boulevard frontage road via two project driveways. The north project driveway will be for automobiles only and the south project driveway will service both automobiles and trucks. For purposes of this analysis, the proposed Project is anticipated to be constructed and fully operational by year 2023.Figure 2 illustrates the proposed site plan.

PHASING AND TIMING

The proposed project is anticipated to be operational in 2023. The project is anticipated to be built in one phase with project construction expected to start no sooner than the beginning of December 2022 and being completed mid-December 2023. Even if construction was to occur any time after the respective dates, the analysis represents "worst-case" since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[1]

[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

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 multi-family residential uses adjacent to the west that are currently under construction and the existing multi-family residential uses located approximately 335 feet southeast and the existing single-family residential uses located approximately 700 feet northeast of the project site.

the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.



Figure 1
Project Location Map

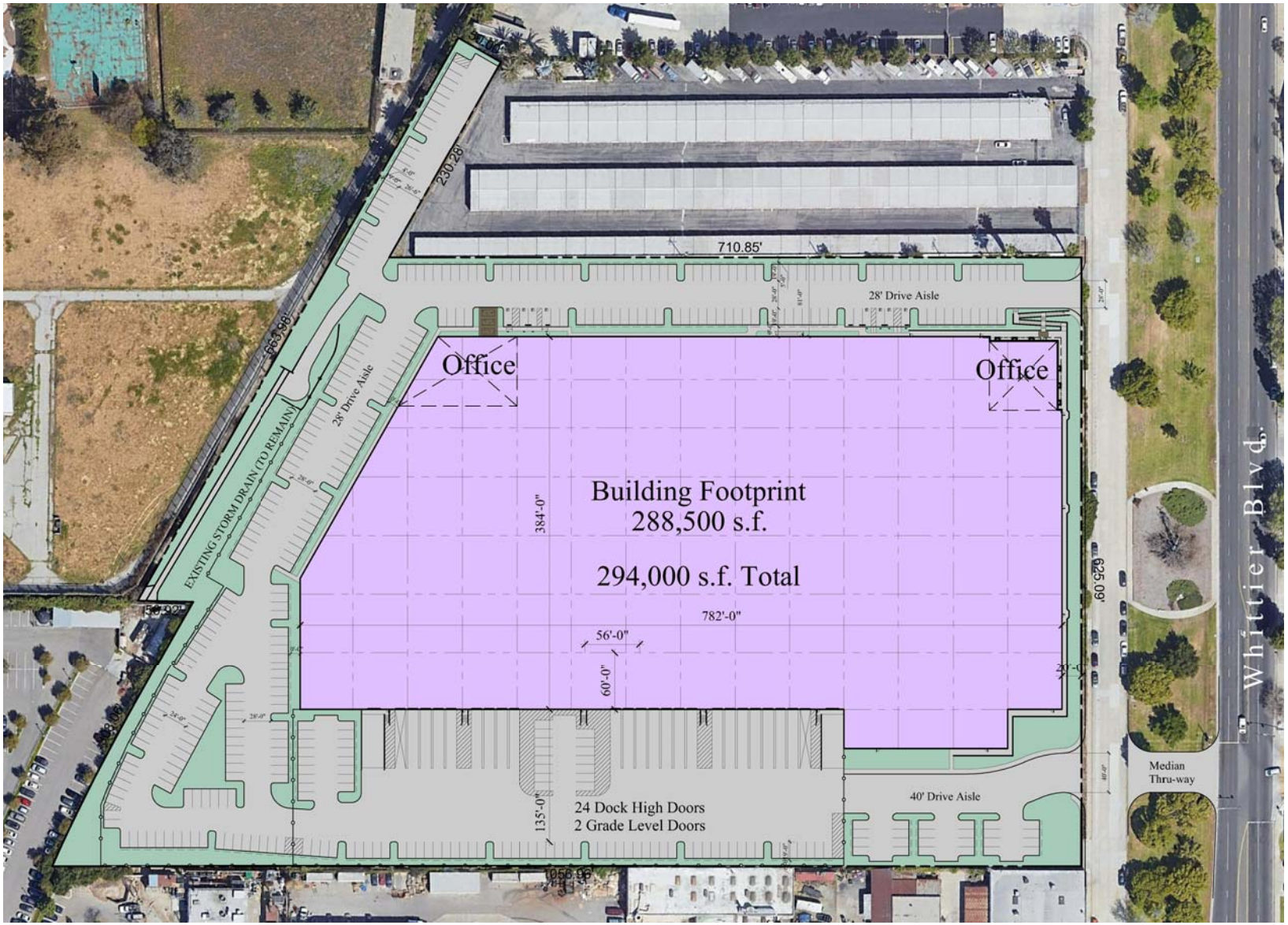


Figure 2
Site Plan

2. AIR QUALITY ANALYSIS

EXISTING AIR QUALITY CONDITIONS

Local Air Quality

The project site is located within the City of Whittier, 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 where the project site is located. 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.

In the winter, light nocturnal winds result mainly from the drainage of cool air off of the mountains toward the valley floor while the air aloft over the valley remains warm. This forms a type of inversion known as a radiation inversion. Such winds are characterized by stagnation and poor local mixing and trap pollutants such as automobile exhaust near their source. While these inversions may lead to air pollution "hot spots" in heavily developed coastal areas of the basin, there is not enough traffic to cause any winter air pollution problems. Despite light wind conditions, especially at night and in the early morning, winter is generally a period of good air quality in the project vicinity.

The temperature and precipitation levels for the City of Montebello, closest monitoring station with data to the project site, are shown below in Table 1. Table 1 shows that August is typically the warmest month and December is typically the coolest month. Rainfall in the project area varies considerably. Almost all the annual rainfall comes from the fringes of mid-latitude storms from late November to early April, with summers being almost completely dry.

Table 1
Local Monthly Climate Data

Descriptor	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Max. Temperature	70.3	71.1	73.6	77.5	79.9	83.5	88.6	89.9	88	82.7	73.1	70.9
Avg. Min. Temperature	47.4	48.7	50.5	53.3	57.3	60.6	64.1	64.9	63.2	58.2	50	47.3
Avg. Total Precipitation (in.)	3.48	3.33	2.6	0.88	0.26	0.05	0	0.03	0.17	0.36	1.24	2.32

Source: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca5790
Data from the Montebello, CA station (045790).

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 dissolve 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 as Asbestos Mountain in the San Jacinto Valley; approximately 94.4 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 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.

South Coast AQMD has initiated the development of the 2022 AQMP to address the attainment of the 2015 8-hour ozone standard (70 ppb) for South Coast Air Basin and Coachella Valley. To support the development of mobile source strategies for the 2022 AQMP, South Coast AQMD, in conjunction with California Air Resources Board, has established Mobile Source Working Groups which are open to all interested parties.

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 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

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

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 Whittier

Local jurisdictions, such as the City of Whittier, 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 Resource Management Element of the Envision Whittier General Plan includes the following applicable air-quality related goals and policies:

Goal 5 Urban environments that guard against adverse air quality impacts on sensitive receptors.

RM-5.1: Comply with SCAQMD regulations and minimize adverse health impacts between facilities known to emit harmful contaminants, such as industrial uses and high traffic areas, and sensitive receptors such as schools, childcare facilities, and senior centers.

RM-5.2: Pursue projects that improve public health and leverage funding available to disadvantaged communities.

In addition, the Public Safety, Noise and Health Element of the Envision Whittier General Plan includes the following goals and policies related to air quality:

Goal 9 Residential neighborhoods no burdened by pollution exposure and where all residents have equal access to community services and amenities, healthy foods, well-maintained homes, and recreational facilities and programming that support health lifestyles.

PSNH-9.1: Review the operating characteristics of proposed new industrial businesses near disadvantaged communities to minimize impacts on the population, especially children and the senior community. Encourage any existing sources of emissions to use feasible measures to minimize emissions that could impact air quality.

PSNH-9.3: Encourage building design, construction safeguards, and technological improvements that mitigate the negative impacts of hazardous materials and/or air pollution on indoor air quality and residential and sensitive uses sited near businesses that handle toxic materials.

PSNH-9.4: Designate acceptable and unacceptable areas for freight trucking and truck idling to limit impacts to all residents and disadvantaged communities in particular.

PSNH-9.5: Use landscaping and other buffers to separate sensitive uses from trucking uses, warehousing, manufacturing facilities, and other emissions sources.

PSNH-9.6: Encourage non-polluting industry and clean green technology companies to locate in the City.

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: https://ww2.arb.ca.gov/sites/default/files/2020-07/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 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 Southeast LA County Air Monitoring Area (Area 5), which is located in Los Angeles County and covers from the Whittier Boulevard on the north, the County of Orange and County of Los Angeles County line on the east, the 91 Freeway on the south, and the 710 Freeway on the west. The nearest air monitoring station to the project site is the Pico Rivera – 4144 San Gabriel Monitoring Station (Pico Rivera Station). The Pico Rivera Station is located approximately 2.79 miles northwest of the project site at 4144 San Gabriel River Parkway, Pico Rivera. As not all monitoring stations monitor all pollutants, data was also taken from the Los Angeles – North Main Street Monitoring Station (Los Angeles Station) located approximately 12.1 miles northwest of the project site at 1630 N Main Street, Los Angeles was also utilized. 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 station reflect with varying degrees of accuracy, local air quality conditions at the project site. Table 4 presents the monitored pollutant levels from the Pico Rivera and Los Angeles Stations.

Table 4 summarizes 2018 through 2020 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 standards.

Ozone

During the 2018 to 2020 monitoring period, the State 1-hour concentration standard for ozone was exceeded between three and 20 days each year at the Pico Rivera Station. The State 8-hour ozone standard has been exceeded between five and 25 days each year over the past three years at the Pico Rivera Station. The Federal 8-hour ozone standard was exceeded between five and 23 days each year over the past three years at the Pico Rivera 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 Los Angeles Station did not record an exceedance of the state or federal 8-hour CO standard for the last three years.

Nitrogen Dioxide

The Pico Rivera 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 between 15 and 34 days each year over the last three years at the Los Angeles Station. Over the past three years, the Los Angeles Station did not record an exceedance of the Federal 24-hour standards for PM10.

Over the last three years the Federal 24-hour standard for PM2.5 was exceeded between one and five days each year at the Pico Rivera 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		
		2018	2019	2020
Ozone:	Maximum 1-Hour Concentration (ppm)	0.115	0.108	0.169
	Days > CAAQS (0.09 ppm)	3	5	20
	Maximum 8-Hour Concentration (ppm)	0.082	0.092	0.114
	Days > NAAQS (0.070 ppm)	5	7	23
	Days > CAAQS (0.070 ppm)	5	8	25
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)	0.077	0.062	0.069
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10):[2]	Maximum 24-Hour Concentration (µg/m^3)	81.2	93.9	185.2
	Days > NAAQS (150 µg/m3)	0	0	0
	Days > CAAQS (50 µg/m3)	31	15	34
	Annual Average (µg/m3)	34.0	23.0	33.9
Ultra-Fine Particulates (PM2.5):	Maximum 24-Hour Concentration (µg/m3)	56.3	50.2	82.9
	Days > NAAQS (35 µg/m3)	2	1	5
	Annual Average (µg/m3)	12.9	10.6	14.8

Notes:

Source: http://www.arb.ca.gov/adam/topfour/topfour1.php. Data from the Pico Rivera - 4144 San Gabriel 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.

(2) Data taken from the Los Angeles - North Main Street Monitoring Station.

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 Significant Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significant Threshold Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significant 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 Significant 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.

The potential for health risks due to project-related diesel particulate matter (DPM) emissions is examined in Section 3 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 a 213,430 square foot existing industrial building and approximately 305,150 square feet of existing paving; site preparation to remove existing landscaping/parking areas; grading of approximately 13.49 acres; construction of a 294,800 square foot industrial building with a 288,800 square foot footprint; paving of a parking lot with 416 parking spaces; and application of architectural coatings. Grading of the site is to balance. See Appendix B for more details.

The proposed project is anticipated to start construction no sooner than the beginning of December 2022 and being completed by mid-December 2023. The project is anticipated to be operational in 2023.

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 2020.4.0) 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 EMFAC2017 computer program to calculate the emission rates specific for the southwestern portion of Riverside County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2017 and OFFROAD2011 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 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] South Coast Air Quality Management District, California Emissions Estimator Model, http://www.aqmd.gov/caleemod/.

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 13.49 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 of VOCs for building coatings and 100 grams per liter or less of VOCs for traffic coatings.

The phases of the construction activities which have been analyzed below for each phase are: (1) demolition, (2) site preparation, (3) grading, (4) building construction, (5) paving, and (6) 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 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 Southeast LA County source receptor area (SRA) 5 and a disturbance value of four acres per day.[6] 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 multi-family residential uses adjacent to the west (that are currently under construction) and the existing multi-family residential uses located approximately 335 feet (~102 meters) southeast and the existing single-family residential uses located approximately 700 feet (~213 meters) northeast of the project site; therefore, the SCAQMD Look-up Tables for 25 meters were 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)[7] and the SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003),[8] 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 12.5 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] The 4-acre threshold was interpolated from the 2-acre and 5-acre SCAQMD Mass Rate Look-up Table thresholds at 25 meters.

[7] 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.

[8] 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
Demolition	On-Site[1]	2.64	25.72	20.59	0.04	5.07	1.73
	Off-Site[2]	0.26	7.97	2.37	0.03	1.02	0.32
	Subtotal	2.90	33.69	22.96	0.07	6.09	2.05
Site Preparation	On-Site[1]	3.17	33.08	19.70	0.04	9.28	5.42
	Off-Site[2]	0.07	0.05	0.71	0.00	0.20	0.05
	Subtotal	3.24	33.13	20.41	0.04	9.48	5.48
Grading	On-Site[1]	3.32	34.52	28.05	0.06	5.01	2.74
	Off-Site[2]	0.07	0.05	0.72	0.00	0.22	0.06
	Subtotal	3.39	34.56	28.78	0.06	5.24	2.80
Building Construction	On-Site[1]	1.57	14.38	16.24	0.03	0.70	0.66
	Off-Site[2]	0.97	4.56	10.55	0.04	3.47	0.96
	Subtotal	2.55	18.94	26.80	0.07	4.17	1.62
Paving	On-Site[1]	1.27	10.19	14.58	0.02	0.51	0.47
	Off-Site[2]	0.05	0.04	0.54	0.00	0.17	0.05
	Subtotal	1.32	10.23	15.13	0.02	0.68	0.51
Architectural Coating	On-Site[1]	30.16	1.30	1.81	0.00	0.07	0.07
	Off-Site[2]	0.17	0.12	1.81	0.00	0.56	0.15
	Subtotal	30.33	1.43	3.62	0.01	0.63	0.22
Total for overlapping phases[3]		34.19	30.60	45.55	0.10	5.48	2.35
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Notes:

Source: CalEEMod Version 2020.4.0

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

(2) Off-site emissions from equipment operated on public roads.

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

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
Site Preparation	Rubber Tired Dozers	3	0.5	1.5
	Crawler Tractors[1]	4	0.5	2
Total for phase		-	-	3.5
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	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Demolition	25.72	20.59	5.07	1.73
Site Preparation	33.08	19.70	9.28	5.42
Grading	34.52	28.05	5.01	2.74
Building Construction	14.38	16.24	0.70	0.66
Paving	10.19	14.58	0.51	0.47
Architectural Coating	1.30	1.81	0.07	0.07
SCAQMD Thresholds[1,2]	153	1,274	12	6
Exceeds Threshold?	No	No	No	No

Notes:

Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 4-acres at a distance of 25 m in SRA 5 Southeast LA County.

(1) The nearest sensitive receptors are the single-family residential uses adjacent to the west (that are currently under construction) and the existing multi-family residential uses located approximately 335 feet (~102 meters) southeast and the existing single-family residential uses located approximately 700 feet (~213 meters) northeast of the project site; therefore, the 25 meter threshold was used.

(2) The 4-acre threshold was interpolated from the 2-acre and 5-acre SCAQMD Mass Rate Look-up Table thresholds at 25 meters. Note: The project will disturb up to a maximum of 4 acres a day during grading (see Table 7).

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 2023, which is the anticipated opening year per the *Whittier Boulevard Business Park Traffic Impact Analysis* ("TIA") prepared by Ganddini Group, Inc. (January 24, 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 would create approximately 995 vehicle trips per day (non-PCE) and 1,266 vehicle trips per day (PCE) with a trip generation rate of 3.37 trips per thousand square foot per day. The program then applies the emission factors for each trip which is provided by the EMFAC2017 model to determine the vehicular traffic pollutant emissions.

The TIA found that the proposed industrial use would create 845 automobile round trips, 12 2-axle truck round trips, 11 3-axle truck round trips, and 127 4+-axle truck round trips per day (non-PCE). The vehicle mix for the industrial project was changed in CalEEMod to match the TIA (see Table 9) and the percentages in CalEEMod were changed to 84.9% autos (C-NW) and 15.1% trucks (C-W) to match the overall vehicle percentages given in the TIA. Due to the proposed project's location and proposed industrial 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 criteria pollutant emissions created from the proposed project's long-term operations have been calculated and are shown below in Table 10. The results show that none of the SCAQMD regional thresholds would be exceeded. 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 995 daily vehicle trips. The intersection with the highest traffic volume is located at Whittier Boulevard and Whittier Boulevard Frontage Road and has an Existing Plus Ambient Growth Plus Project Plus Cumulative - Alternative with Mar Vista Street Extension AM peak hour volume of 1,428 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 the intersection volume falls 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 multi-family residential uses adjacent to the west (that are currently under construction) and the existing multi-family residential uses located approximately 335 feet (~102 meters) southeast and the existing single-family residential uses located approximately 700 feet (~213 meters) northeast 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 Perris Valley source receptor area (SRA) 24 and as the site is only 13.49 acres, used the screening thresholds for a five-acre project site.

Table 10 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 approximately 10 percent of the project-related new mobile sources.[9] The data provided in Table 10 shows that the on-going operations of the proposed project would not exceed SCAQMD local operational thresholds of significance discussed above. 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 and no mitigation would be required.

Operations-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 operation 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 operation are not anticipated.

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.

[9] The project site is approximately 0.23 miles in length at its longest point; therefore the on-site mobile source emissions represent approximately 1/30th 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

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix[1]		CalEEMod Revised Mix[2]	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.545	542	0.489	486
Light Truck < 3750 lbs	Automobile	0.063	63	0.056	56
Light Truck 3751-5750 lbs	Automobile	0.187	187	0.168	167
Med Truck 5751-8500 lbs	Automobile	0.127	127	0.114	114
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.023	23	0.009	9
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.006	6	0.003	2
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.010	10	0.011	11
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.008	8	0.128	127
Other Bus	--	0.001	1	0.000	0
Urban Bus	--	0.001	1	0.000	0
Motorcycle	Automobile	0.024	24	0.022	22
School Bus	--	0.001	1	0.000	0
Motor Home	--	0.003	3	0.000	0
Total		**1.0**	**995**	**1.0**	**995**

Notes:

(1) Source: CalEEMod Version 2020.4.0 default values for Opening year of 2023.

(2) Revised per the vehicle mix provided in the Whittier Boulevard Business Park Traffic Impact Analysis (Ganddin Group, Inc., January 2022) of 84.9% Autos, 1.2% 2-Axle Trucks, 1.1% 3-Axle Trucks and 12.8% 4+ Axle Trucks.

Table 10
Regional Operational Pollutant Emissions

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources[1]	6.72	0.00	0.07	0.00	0.00	0.00
Energy Usage[2]	0.09	0.82	0.69	0.00	0.06	0.06
Mobile Sources[3]	3.30	13.39	35.59	0.11	8.54	2.35
Total Emissions	10.12	14.21	36.35	0.11	8.61	2.41
SCAQMD Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

Source: CalEEMod Version 2020.4.0; the higher of either summer or winter emissions.

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

(2) Energy usage consists of emissions from generation of electricity and on-site natural gas usage.

(3) Mobile sources consist of emissions from vehicles and road dust.

Table 11
Local Operational Emissions at the Nearest Receptors

	On-Site Pollutant Emissions (pounds/day)[1]			
On-Site Emission Source	NOx	CO	PM10	PM2.5
Area Sources[2]	0.00	0.07	0.00	0.00
Energy Usage[3]	0.82	0.69	0.06	0.06
Vehicle Emissions[4]	1.34	3.56	0.85	0.23
Total Emissions	2.16	4.32	0.92	0.30
SCAQMD Thresholds[5]	172	1,480	4	2
Exceeds Threshold?	No	No	No	No

Notes:

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

(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 single-family residential uses adjacent to the west (that are currently under construction) and the existing multi-family residential uses located approximately 335 feet (~102 meters) southeast and the existing single-family residential uses located approximately 700 feet (~213 meters) northeast of the project site; therefore, the 25 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;[10] 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, PM10, and PM2.5. 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, 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.

[10] 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 2020-2045 Regional Transportation/Sustainable Communities Strategy prepared by SCAG (2020) 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 Whittier Land Use Plan defines the assumptions that are represented in the AQMP.

The project site is currently designated as General Industrial and zoned Whittier Boulevard Specific Plan in the City of Whittier General Plan. The project proposes to develop the site with 294,800 square feet of industrial use. Therefore, the proposed project is consistent with the City's land use designation. 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 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.

According to the SCAQMD's MATES-V study, has an estimated multi-pathway cancer risk of 467 in one million and an inhalation cancer risk of 435 in one million. In comparison the average multi-pathway cancer risk for the South Coast Air Basin portion of Los Angeles County is 497 in one million and the inhalation cancer risk is 462 in a million. This increased cancer risk is largely due to the proximity to the Interstate 605 Freeway.

EMISSIONS INVENTORY DEVELOPMENT

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

Emission Source Estimates – DPM for Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2021 emissions factor model (see Appendix C for details). Truck mix information was obtained from the *Whittier Boulevard Business Park Traffic Impact Analysis* ("TIA") prepared by Ganddini Group, Inc. (January 24, 2022).

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 995 (non-passenger car equivalents) vehicle trips per day. Of those vehicle trips, 845 are automobile round trips, 12 are 2-axle truck round trips, 11 are 3-axle truck round trips, and 127 are 4+-axle truck round trips per day (non-passenger car equivalents).

Estimate of Emission Factors

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. Third trimester exposure used opening year (2023) emissions factors, 2-year factors (for infant exposure) reflect years 2024 and 2025, 14-year average factors (for child exposure during years 2-16) reflect emissions during the first 14 years of operation (2026 to 2039), the second 14 years of exposure (years 2040-2053) 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 loading docks, and while idling at the loading dock during loading or unloading materials. 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 truck entrance and at the loading docks), in keeping with the CARB Air Toxic Control Measure (ATCM), which regulates truck idling time (CARB 2005). The four different sets of emissions factors used in this assessment are detailed in Table 12. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2023 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle "big rig" trucks). This is due to the CARB emissions' requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

Emission Source Characterization

Each of the emission source types described above also requires geometrical and emission release specifications for use in the air dispersion model. An average truck height of 13.5 feet and average truck width of 8.5 feet were entered into the haul road calculator in AERMOD in order to calculate the plume height and release height for the line sources. Table 13 provides a summary of the assumptions used to configure the various emission sources. The following definitions are used to characterize the emission source geometrical configurations referred to in Table 13:

- 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 that may be affected by on-site and off-site DPM emissions (including the multi-family residential uses adjacent to the west that are currently under construction, the existing multi-family residential uses located approximately 335 feet southeast, and residential uses under construction located approximately 1,660 feet northwest of the site, west of Whitter Boulevard). A receptor was also placed at the Whittier Greenway bike/pedestrian trail located east of Whittier Boulevard. Residential receptors are shown as orange triangles labeled 1 through 7 and 9, the receptor for the Whittier Greenway Trail is labeled bike trail_8. The direction of on-site and off-site truck travel were obtained from the site plan and the TIA.

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 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 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 13. The basic options used in the dispersion modeling are summarized in Table 14.

As indicated in Table 14 the analysis takes into account the effects of building downwash on the dispersion of emissions from the various sources located on the project's property. Building downwash occurs when the aerodynamic turbulence, induced by nearby buildings, causes pollutants emitted from an elevated source to be mixed rapidly toward the ground (downwash), resulting in potentially higher ground-level concentrations than if the buildings were not present. The AERMOD dispersion model contains algorithms to account for building downwash effects. The required information includes the location of the emission source; the location of adjacent buildings; and the building geometry in terms of length, width, and height. For purposes of this analysis, the emission source and building locations were taken from the project site plan. The proposed building geometries were estimated from the project plans, assuming a building height of 35 feet.

Meteorological Data

Meteorological data (processed with the ADJ_U option) from the Air District's Pico Rivera monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site from January 1, 2010 to December 31, 2016 by the SCAQMD. The SCAQMD processed the data for input to the model. The data was obtained at SCAQMD's https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/data-for-aermod (see Figure 4).

ESTIMATION OF HEALTH RISKS

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

Cancer Risks

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

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

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

Where:

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

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

A [Inhalation absorption factor] = 1

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

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

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

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

10^6 [Micrograms to milligrams conversion]

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

The model run results are shown in Appendix C. Figure 5 illustrates the cancer risk to the most affected age-group, infants (0-2 years). Table 15 shows the cancer risk for the unborn child during the 3rd trimester, Table 16 shows the cancer risk to infants (0-2 years), Table 17 shows the cancer risk to children ages 2 to 16 years and Table 18 shows the cancer risk as that child becomes an adult (years 16-30).

The highest cancer risk corresponds to infant cancer risk 0-2 years (see Table 16), and is at receptor bike trail_8, with a maximum risk of 0.38 in one million, followed by receptor 1 at 0.36 in a million. The maximum 3rd trimester (0.25-year) cancer risk is at receptors 1, 2, and bike trail_8; with a maximum cancer risk of 0.02 in a million. The highest child (2-16 years) cancer risk is at receptors 1 and bike trail_8; with a maximum risk of 0.35 in one million and the highest adult (16-30 years) cancer risk is at receptors 1, 2 and bike trail_8; 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 cumulative 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 0.78 in a million at receptor location bike trail_8, followed by 0.76 in a million at receptor location 1, as shown in Table 19. 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.

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 adult, child and infant receptors are also detailed in Tables 15 through 18 column (j). The RELDPM is 5 µg/m3. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration from years 2023-2053, the resulting Hazard Index is:

HIDPM = 0.00129/5 = 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 diesel emissions created by the proposed project.

Table 12
DPM Emissions Factors for the Proposed Project

Vehicle Class	1-Year Average (Opening Year-2023)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77884	0.05961	0.02374
Medium Heavy Duty Truck	0.08675	0.04522	0.01037
Heavy Heavy Duty Truck	0.01631	0.01258	0.00856

Vehicle Class	2-Year Average (2024-2025)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77760	0.05232	0.02124
Medium Heavy Duty Truck	0.06652	0.03520	0.00833
Heavy Heavy Duty Truck	0.01500	0.01198	0.00811

Vehicle Class	14-Year Average (First 14 years of Operation - 2026-2039)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.76899	0.03945	0.01734
Medium Heavy Duty Truck	0.02150	0.01154	0.00340
Heavy Heavy Duty Truck	0.01135	0.00969	0.00658

Vehicle Class	14-Year Average (Second 14 years of Operation - 2040-2053)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.76156	0.03556	0.01660
Medium Heavy Duty Truck	0.00743	0.00328	0.00154
Heavy Heavy Duty Truck	0.00975	0.00821	0.00565

Notes:

Source: EMFAC2021.

Table 13
Summary of Emission Configurations

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Truck Traffic	Line Sources	Stack release height: 3.5 m
		Vehicle speed: 35 mph
		Length of the line source (along Whittier Boulevard Frontage Road to Whittier Boulevard northbound and southbound, from Whittier Boulevard to Washington Boulevard westbound)
		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 (from southern driveway truck entrance to loading doack area)
		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 Source located at Project Buildings	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 14
General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP - NED GEOTIFF 30 min
Emission source configuration	See Table 13
Regulatory dispersion options	Default
Land use	Urban, Los Angeles County
Coordinate system	UTM, Zone 11 north
Building downwash	Included in calculations
Receptor height	0 meters above ground (per SCAQMD/OEHHA methodology)
Meteorological data	SCAQMD Pico Rivera Meteorological Data

Table 15
Carcinogenic Risks and Non-Carcinogenic 3rd Trimester Exposure Scenario (0.25-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00115	1.2E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0002
2	0.00113	1.1E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0002
3	0.00107	1.1E-06	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
4	0.00084	8.4E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
5	0.00107	1.1E-06	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
6	0.00101	1.0E-06	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0002
7	0.00074	7.4E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
bike trail_8	0.00129	1.3E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0003
9	0.00063	6.3E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001

Notes:

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

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

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

Table 16
Carcinogenic Risks and Non-Carcinogenic Infant Exposure Scenario (2-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00109	1.1E-06	1.00E+00	DPM	1.1E+00	0.36	5.0E+00	1.4E-03	0.0002
2	0.00107	1.1E-06	1.00E+00	DPM	1.1E+00	0.35	5.0E+00	1.4E-03	0.0002
3	0.00102	1.0E-06	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002
4	0.0008	8.0E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0002
5	0.00096	9.6E-07	1.00E+00	DPM	1.1E+00	0.32	5.0E+00	1.4E-03	0.0002
6	0.00085	8.5E-07	1.00E+00	DPM	1.1E+00	0.28	5.0E+00	1.4E-03	0.0002
7	0.00063	6.3E-07	1.00E+00	DPM	1.1E+00	0.21	5.0E+00	1.4E-03	0.0001
bike trail_8	0.00115	1.2E-06	1.00E+00	DPM	1.1E+00	0.38	5.0E+00	1.4E-03	0.0002
9	0.00053	1.9E-04	1.00E+00	DPM	1.1E+00	0.17	5.0E+00	1.4E-03	0.0001

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

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

Table 17
Carcinogenic Risks and Non-Carcinogenic Child Exposure Scenario (2-16 Years)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00097	9.7E-07	1.00E+00	DPM	1.1E+00	0.35	5.0E+00	1.4E-03	0.0002
2	0.00095	9.5E-07	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002
3	0.00091	9.1E-07	1.00E+00	DPM	1.1E+00	0.33	5.0E+00	1.4E-03	0.0002
4	0.00071	7.1E-07	1.00E+00	DPM	1.1E+00	0.26	5.0E+00	1.4E-03	0.0001
5	0.00082	8.2E-07	1.00E+00	DPM	1.1E+00	0.30	5.0E+00	1.4E-03	0.0002
6	0.00069	6.9E-07	1.00E+00	DPM	1.1E+00	0.25	5.0E+00	1.4E-03	0.0001
7	0.00052	5.2E-07	1.00E+00	DPM	1.1E+00	0.19	5.0E+00	1.4E-03	0.0001
bike trail_8	0.00097	9.7E-07	1.00E+00	DPM	1.1E+00	0.35	5.0E+00	1.4E-03	0.0002
9	0.00044	4.4E-07	1.00E+00	DPM	1.1E+00	0.16	5.0E+00	1.4E-03	0.0001

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

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

Table 18
Carcinogenic Risks and Non-Carcinogenic Hazards Adult Exposure Scenario (16-30 Years)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Noncarcinogenic Hazards Index (j)
1	0.00091	9.1E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
2	0.00089	8.9E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
3	0.00085	8.5E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0002
4	0.00066	6.6E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
5	0.00073	7.3E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
6	0.00056	5.6E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
7	0.00039	3.9E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001
bike trail_8	0.00088	8.8E-07	1.00E+00	DPM	1.1E+00	0.04	5.0E+00	1.4E-03	0.0002
9	0.00039	3.9E-07	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0001

Notes:

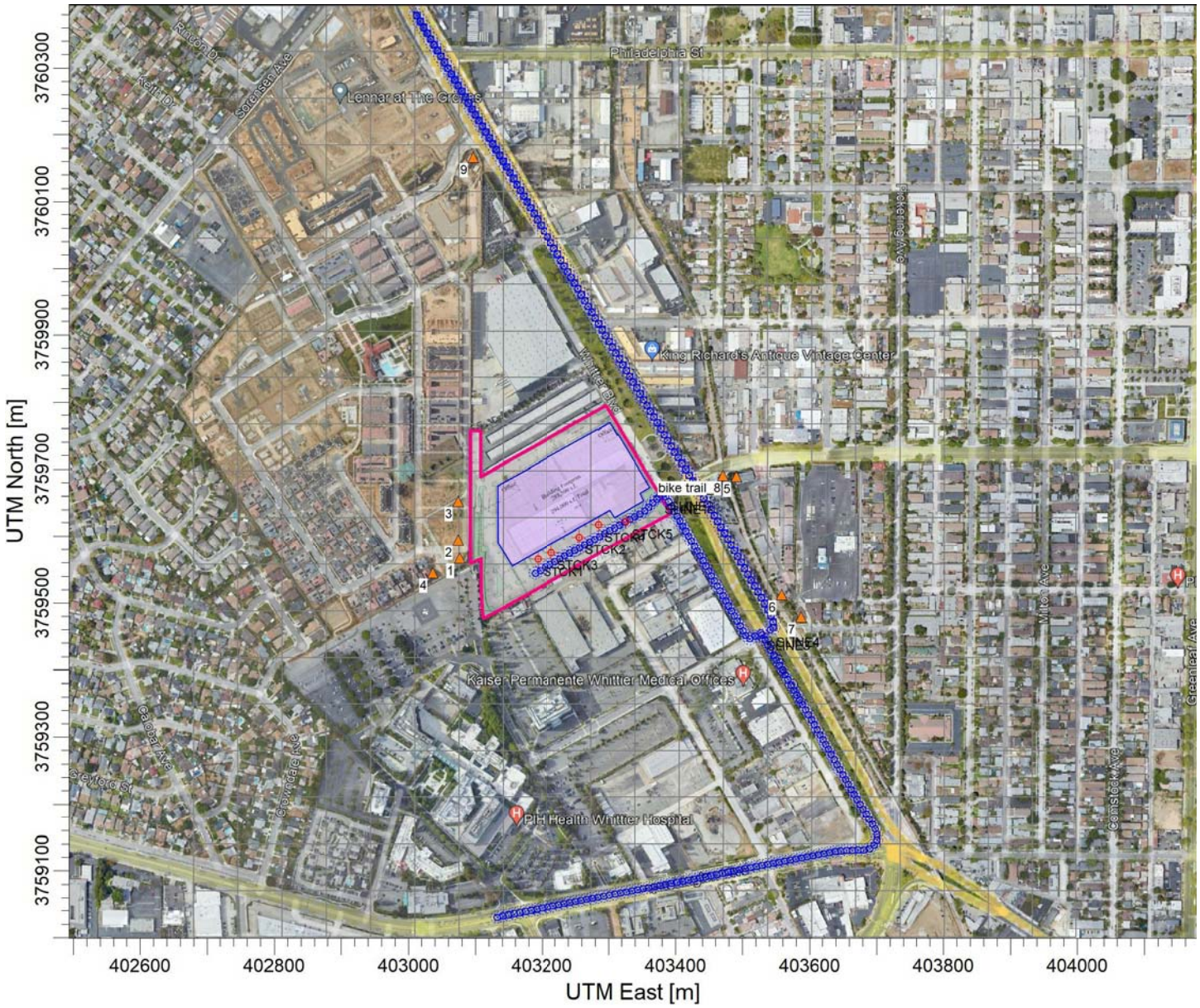
OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

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

Table 19
Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	0.76
2	0.75
3	0.71
4	0.56
5	0.66
6	0.57
7	0.42
bike trail_8	0.78
9	0.36



N

Legend

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

Figure 3
AERMOD Model Source and Receptor Placement

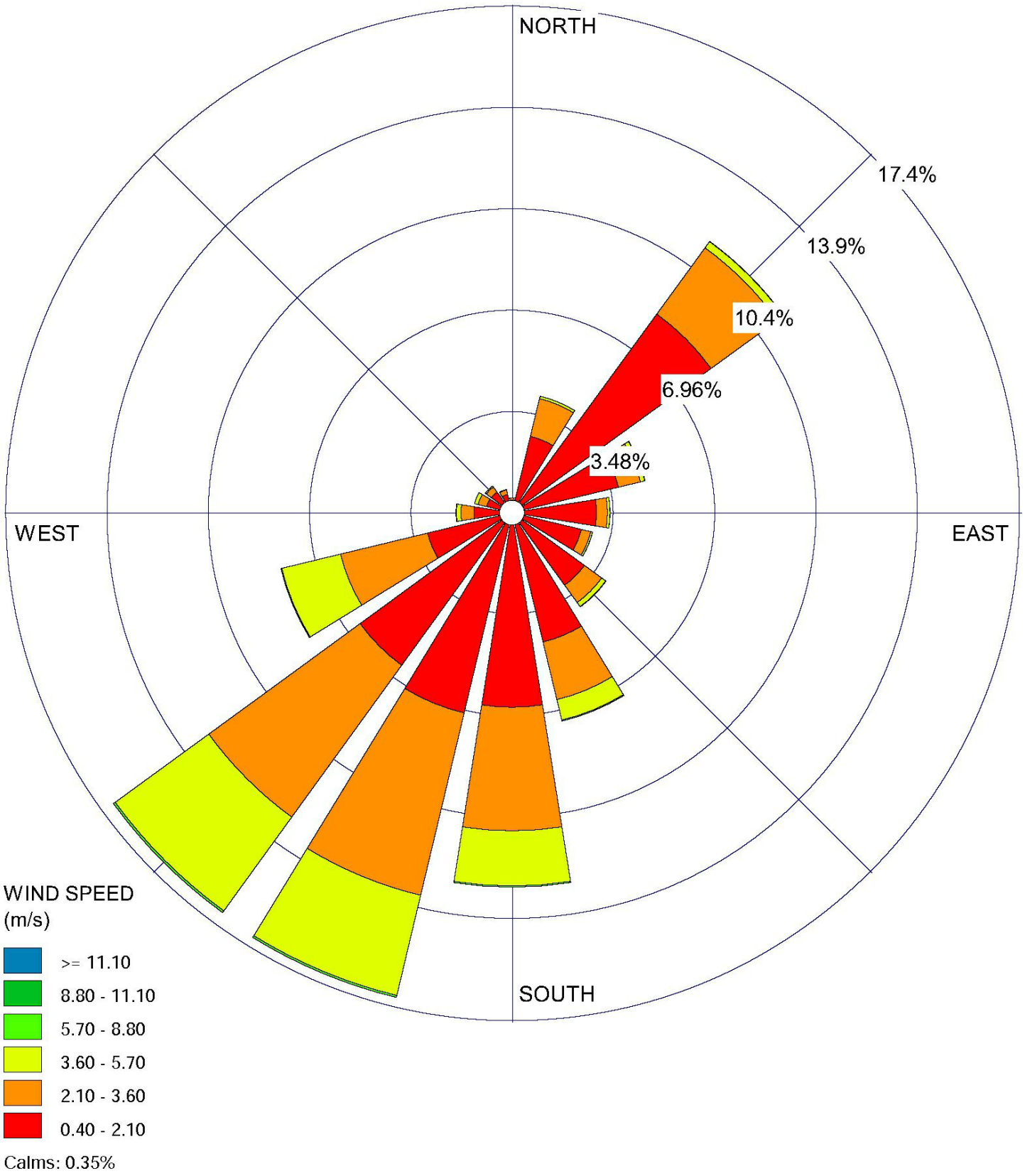
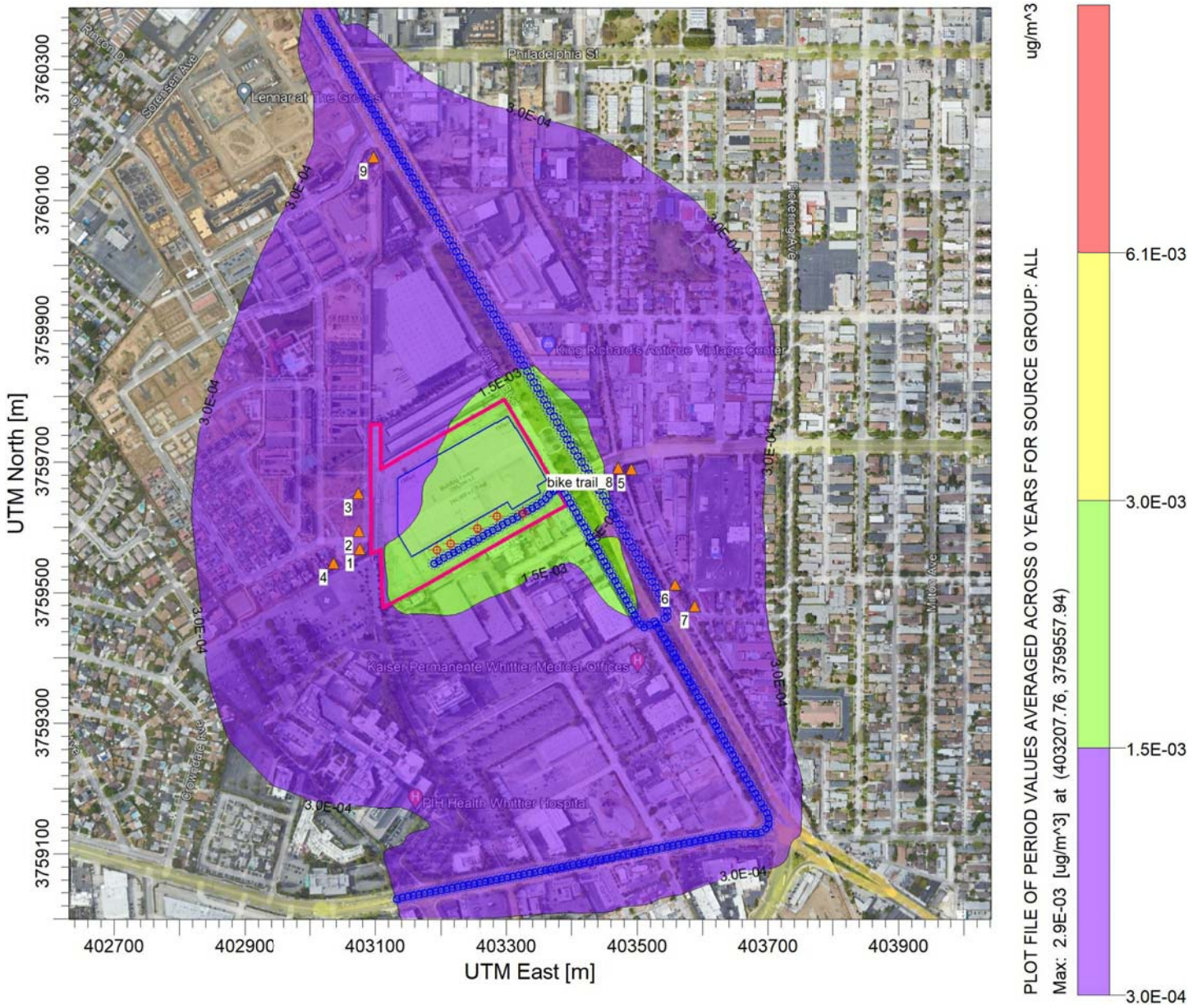


Figure 4
Wind Rose, Pico Rivera



N

Legend

Cancer Risk for 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 20. As shown in Table 20, the global warming potential of GHGs ranges from 1 to 22,800.

Table 20
Global Warming Potentials and Atmospheric Lifetimes

Gas	Atmospheric Lifetime	Global Warming Potential[1] (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.[11]

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)[12] 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.[13] In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

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 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

[11] 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.

[12] 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.

[13] 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.

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

[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. 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. After adopting these initial greenhouse gas standards for passenger vehicles, CARB adopted continuing standards for future model years.

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.

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

[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

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 were 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 was signed into law on September 23, 2020 and mandates 100 percent of in-state sales of new passenger cars and trucks be zero-emission by 2035; 100 percent of medium- and heavy-duty vehicles in the state be zero-emission vehicles by 2045 for all operations where feasible and by 2035 for drayage trucks; and to transition to 100 percent zero-emission off-road vehicles and equipment by 2035 where feasible.

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 required 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 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.

[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).

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 Whittier

The City of Whittier does not currently have a Climate Action Plan.

The Public Safety, Noise and Health Element of the Envision Whittier General Plan includes the following goals and policies related to climate adaptation:

Goal 8 An adaptive community responsive to changing climate solutions.

PSNH-8.2: Require the passive solar design of projects to address the possible effects of extreme heat events, such as requiring shade trees and shade shelter areas, shaded playgrounds, bus shelters, and placement of structures that account for proper sun exposure to reduce heat within structures.

PSNH-8.3: Encourage use of pavement materials designed to reflect solar energy, speed up evaporation, and otherwise stay cooler than traditional pavements.

PSNH-8.4: Encourage redundant power sources such as generators or renewable energy sources to help assure power is available for increased power needs in the heat events and to minimize blackouts.

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].

Thresholds of Significance for this Project

To determine whether the project's GHG emissions are significant, this analysis uses the SCAQMD screening threshold of 10,000 MTCO2e per year for industrial 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 2020.4.0 was used to calculate the GHG emissions from the proposed project. The CalEEMod Annual Output for year 2023 is available in Appendix D. Each source of GHG emissions is described in greater detail below.

[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.

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 EMFAC2017 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, reductions for this are shown in the mitigated CalEEMod output values. No other 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. 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 in the manner detailed above in Section 2.

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 21 and the CalEEMod Model run for the proposed project is provided in Appendix C. Table 21 shows that the total for the proposed project's emissions (without credit for any reductions from sustainable design and/or regulatory requirements) would be 3,066.08 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 threshold of 10,000 $MTCO_2e$ per year for industrial uses. Therefore, operation of the proposed project would not create a significant cumulative impact to global climate change. No mitigation is required.

Table 21
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
Area Sources[1]	0.00	0.02	0.02	0.00	0.00	0.02
Energy Usage[2]	0.00	826.04	826.04	0.06	0.01	830.43
Mobile Sources[3]	0.00	1,724.63	1,724.63	0.10	0.15	1,771.73
Waste[4]	74.20	0.00	74.20	4.39	0.00	183.84
Water[5]	21.63	157.43	179.05	2.23	0.05	251.03
Construction[6]	0.00	28.57	28.57	0.00	0.00	29.05
Total Emissions	95.83	2,736.69	2,832.52	6.78	0.21	3,066.08
SCAQMD Screening Threshold for Industrial Uses						10,000
Exceeds Threshold?						No

Notes:
Source: CalEEMod Version 2020.4.0 for Opening Year 2023.
(1) Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.
(2) Energy usage consist of GHG emissions from electricity and natural gas usage.
(3) Mobile sources consist of GHG emissions from vehicles.
(4) Solid waste includes the CO_2 and CH_4 emissions created from the solid waste placed in landfills.
(5) Water includes GHG emissions from electricity used for transport of water and processing of wastewater.
(6) Construction GHG emissions CO2e based on a 30 year amortization rate.

CONSISTENCY WITH APPLICABLE GREENHOUSE GAS REDUCTION PLANS AND POLICIES

The proposed project would 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 City of Whittier does not currently have a Climate Action Plan; therefore, the project has been compared to the goals of the CARB Scoping Plan.

SB-32

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 SCAQMD threshold of 10,000 MTCO2e per year for all land use types (in compliance with Executive Order S-3-05), the project's emissions also comply with the goals of AB 32. Additionally, as the project meets the current interim emissions targets/thresholds established by the 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.

Scoping Plan

Emission reductions in California alone would not be able to stabilize the concentration of greenhouse gases in the earth's atmosphere. However, California's actions set an example and drive progress towards a reduction in greenhouse gases elsewhere. If other states and countries were to follow California's emission reduction targets, this could avoid medium or higher ranges of global temperature increases. Thus, severe consequences of climate change could also be avoided.

The ARB Board approved a Climate Change Scoping Plan in December 2008. The Scoping Plan outlines the State's strategy to achieve the 2020 greenhouse gas emissions limit. The Scoping Plan "proposes a comprehensive set of actions designed to reduce overall greenhouse gas emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health" (California Air Resources Board 2008). The measures in the Scoping Plan have been in place since 2012.

This Scoping Plan calls for an "ambitious but achievable" reduction in California's greenhouse gas emissions, cutting approximately 30 percent from business-as-usual emission levels projected for 2020, or about 10 percent from today's levels. On a per-capita basis, that means reducing annual emissions of 14 tons of carbon dioxide for every man, woman and child in California down to about 10 tons per person by 2020.

In May 2014, CARB released its *First Update to the Climate Change Scoping Plan* (CARB 2014). This *Update* identifies the next steps for California's leadership on climate change. While California continues on its path to meet the near-term 2020 greenhouse gas limit, it must also set a clear path toward long-term, deep GHG emission reductions. This report highlights California's success to date in reducing its GHG emissions and lays

the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050.

In November 2017, CARB release the 2017 Scoping Plan. This Scoping Plan incorporates, coordinates, and leverages many existing and ongoing efforts and identifies new policies and actions to accomplish the State's climate goals, and includes a description of a suite of specific actions to meet the State's 2030 GHG limit. In addition, Chapter 4 provides a broader description of the many actions and proposals being explored across the sectors, including the natural resources sector, to achieve the State's mid and long-term climate goals.

Guided by legislative direction, the actions identified in the 2017 Scoping Plan reduce overall GHG emissions in California and deliver policy signals that will continue to drive investment and certainty in a low carbon economy. The 2017 Scoping Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while identifying new, technologically feasible, and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities. The Plan includes policies to require direct GHG reductions at some of the State's largest stationary sources and mobile sources. These policies include the use of lower GHG fuels, efficiency regulations, and the Cap-and Trade Program, which constrains and reduces emissions at covered sources.

As the latest, 2017 Scoping Plan builds upon previous versions, project consistency with applicable strategies of both the 2008 and 2017 Plan are assessed in Table 22. As shown in Table 22, the project is consistent with the applicable strategies and would result in a less than significant impact.

At a level of 3,066.08 $MTCO_2e$ per year, the project's GHG emissions do not exceed the SCAQMD threshold of 10,000 MTCO2e per year for industrial uses and would be in compliance with the reduction goals of the CARB Scoping Plan, AB-32 and SB-32. Furthermore, the project will comply with applicable Green Building Standards and City of Whittier's policies regarding sustainability (as dictated by the City's General Plan). Impacts are considered to be less than significant.

Table 22
Project Consistency with CARB Scoping Plan Policies and Measures[1]

2008 Scoping Plan Measures to Reduce Greenhouse Gas Emissions	Project Compliance with Measure
California Light-Duty Vehicle Greenhouse Gas Standards – Implement adopted standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Energy Efficiency – Maximize energy efficiency building and appliance standards; pursue additional efficiency including new technologies, policy, and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California.	No Conflict. The project will be compliant with the current Title 24 standards.
Low Carbon Fuel Standard – Develop and adopt the Low Carbon Fuel Standard.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Vehicle Efficiency Measures – Implement light-duty vehicle efficiency measures.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Medium/Heavy-Duty Vehicles – Adopt medium and heavy-duty vehicle efficiency measures.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Green Building Strategy – Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings.	No Conflict. The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards, that are mandatory in the 2019 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The project will be subject to these mandatory standards.
High Global Warming Potential Gases – Adopt measures to reduce high global warming potential gases.	No Conflict. CARB identified five measures that reduce HFC emissions from vehicular and commercial refrigeration systems; vehicles that access the project that are required to comply with the measures will comply with the strategy.
Recycling and Waste – Reduce methane emissions at landfills. Increase waste diversion, composting, and commercial recycling. Move toward zero-waste.	No Conflict. The state is currently developing a regulation to reduce methane emissions from municipal solid waste landfills. The project will be required to comply with City programs, such as City's recycling and waste reduction program, which complies with the 75 percent reduction required in 2020 per AB 341.
Water – Continue efficiency programs and use cleaner energy sources to move and treat water.	No conflict. The project will comply with all applicable City ordinances and CAL Green requirements.

2017 Scoping Plan Recommended Actions to Reduce Greenhouse Gas Emissions	Project Compliance with Recommended Action
Implement Mobile Source Strategy: Further increase GHG stringency on all light-duty vehicles beyond existing Advanced Clean Car regulations.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Implement Mobile Source Strategy: At least 1.5 million zero emission and plug-in hybrid light-duty electric vehicles by 2025 and at least 4.2 million zero emission and plug-in hybrid light-duty electric vehicles by 2030.	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Implement Mobile Source Strategy: Innovative Clean Transit: Transition to a suite of to-be-determined innovative clean transit options. Assumed 20 percent of new urban buses purchased beginning in 2018 will be zero emission buses with the penetration of zero-emission technology ramped up to 100 percent of new sales in 2030. Also, new natural gas buses, starting in 2018, and diesel buses, starting in 2020, meet the optional heavy-	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Implement Mobile Source Strategy: Last Mile Delivery: New regulation that would result in the use of low NOX or cleaner engines and the deployment of increasing numbers of zero-emission trucks primarily for class 3-7 last mile delivery trucks in California. This measure assumes ZEVs comprise 2.5 percent of new Class 3–7 truck sales in local fleets starting in	No Conflict. These are CARB enforced standards; vehicles that access the project (that are required to comply with the standards) will comply with the strategy.
Implement SB 350 by 2030: Establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas end uses by 2030.	No Conflict. The project will be compliant with the current Title 24 standards.
By 2019, develop regulations and programs to support organic waste landfill reduction goals in the SLCP and SB 1383.	No Conflict. The project will be required to comply with City programs, such as City's recycling and waste reduction program, which comply with the 75 percent reduction required in 2020 per AB 341.

Notes:
(1) Source: CARB Scoping Plan (2008 and 2017)

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 CARB Scoping Plan.

Thus, given the project's consistency with the CARB Scoping Plan and SCAQMD's 10,000 MTCO2e per year threshold for industrial 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 39.4 percent transportation;
- Approximately 23.1 percent industrial;
- Approximately 18.7 percent residential; and
- Approximately 18.8 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 Mix 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 4 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 3 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 4 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.

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 2020.4.0 Daily and Annual Outputs contained in Appendix B and D, utilized for air quality and greenhouse gas analyses in Sections 2 and 4 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 occur between the beginning of December 2022 and mid-December 2023 and be completed in one phase. Staging of construction vehicles and equipment will occur on-site. The approximately 12.5-month schedule is relatively short and the project site is approximately 13.49 acres.

Construction Equipment Electricity Usage Estimates

As stated previously, Electrical service will be provided by Southern California Edison. 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 2017 National Construction Estimator, Richard Pray (2017)[37], the typical power cost per 1,000 square feet of building construction per month is estimated to be $2.32. The project plans to develop the site with a 294,800 square foot industrial use. 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 $8,549.20. As shown in Table 14, the total electricity usage from project construction related activities is estimated to be approximately 65,763 kWh.

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. 2017 National Construction Estimator. Carlsbad : Craftsman Book Company, 2017.

- Construction schedule of 12.5 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 43,289 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 (LDT2) at a mix of 50 percent/25 percent/25 percent, respectively, along area roadways.[38] With respect to estimated VMT, the construction worker trips would generate an estimated 669,071 VMT. Data regarding project related construction worker trips were based on CalEEMod 2020.4.0 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 2021 EMFAC model (see Appendix D for details). An aggregate fuel efficiency of 26.38 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. Table 27 shows that an estimated 25,363 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 building construction and architectural coating. With respect to estimated VMT, the vendor and hauling trips would generate an estimated 150,639 VMT. Data regarding project related construction worker trips were based on CalEEMod 2020.4.0 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 grading would use medium to heavy duty vehicles with an average fuel consumption of 7.59mpg for medium heavy-duty trucks and 5.87 for heavy heavy-duty trucks (see Appendix D for details). [39] Tables 28 and 29 show that an estimated 23,410 gallons of fuel would be consumed for vendor and hauling trips.

[38] CalEEMod User's Guide (May 2021) states that the CalEEMod default fleet mix for worker trips includes light duty autos and light duty trucks, LDA, LDT1, LDT2, at a mix of 50%/25%/25%, respectively.

[39] CalEEMod User's Guide (May 2021) states that the CalEEMod default fleet mix for vendor trips includes medium heavy-duty and heavy heavy-duty trucks, MHDT and HHDT, at a mix of 50%/50%.

Construction Energy Efficiency/Conservation Measures

Construction equipment used over the approximately 12.5-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 County 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 6.9 miles and 3- 4-axle trucks were assumed to travel an average of 40 miles.[40] As the project includes the development of the site with industrial uses; therefore, in order 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.[41]

The proposed project would generate 995 trips per day. The vehicle fleet mix was used from the CalEEMod output. Table 30 shows that an estimated 393,935 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 (20th Edition, 2017). 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

[40] CalEEMod default distance for H-W (home-work) or C-W (commercial-work) is 16.6 miles; 6.9 miles for H-O (home-other) or C-O (commercial-other). However, due to the project's industrial use the distance for H-W (home-work) or C-W (commercial-work) was changed to 40 miles per SCAQMD recommendations.

[41] Average fuel economy based on aggregate mileage calculated in EMFAC 2017 for opening year (2023). See Appendix C for EMFAC output.

billion gallons of diesel and 15.1 billion gallons of gasoline in 2015.[42,43] 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 3,039,390 kWh per year. In 2020, the non-residential sector of the County of Los Angeles consumed approximately 42,737 million kWh of electricity.[44] In addition, the estimated natural gas consumption for the proposed project is approximately 3,743,240 kBTU per year. In 2020, the non-residential sector of the County of Los Angeles consumed approximately 1,699 million therms of gas.[45] Therefore, the increase in both electricity and natural gas demand from the proposed project is insignificant compared to the County's 2019 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

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

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

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

[45] 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 4 above, the proposed project would be consistent with the applicable goals of the CARB Scoping 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 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 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)	Construction Duration (months)	Total Project Construction Power Cost
$2.32	294.800	12.5	$8,549.20

Cost per kWh	Total Project Construction Electricity Usage (kWh)
$0.13	65,763

*Assumes the project will be under the GS-1 General Service 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	Load Factor	HP hrs/day	Total Fuel Consumption (gal diesel fuel)[1]
Demolition	52	Concrete/Industrial Saws	1	8	81	0.73	473	1,330
	52	Excavators	3	8	158	0.38	1,441	4,050
	52	Rubber Tired Dozers	2	8	247	0.40	1,581	4,443
Site Preparation	9	Rubber Tired Dozers	3	8	247	0.40	2,371	1,154
	9	Tractors/Loaders/Backhoes	4	8	97	0.37	1,148	559
Grading	42	Excavators	2	8	158	0.38	961	2,181
	42	Graders	1	8	187	0.41	613	1,392
	42	Rubber Tired Dozers	1	8	247	0.4	790	1,794
	42	Tractors/Loaders/Backhoes	2	8	97	0.37	574	1,304
Building Construction	153	Cranes	1	7	231	0.29	469	3,878
	153	Forklifts	3	8	89	0.2	427	3,533
	153	Generator Sets	1	8	84	0.74	497	4,113
	153	Tractors/Loaders/Backhoes	3	7	97	0.37	754	6,233
	153	Welders	1	8	46	0.45	166	1,370
Paving	42	Pavers	2	8	130	0.42	874	1,983
	42	Paving Equipment	2	8	132	0.36	760	1,726
	42	Rollers	2	8	80	0.38	486	1,104
Architectural Coating	94	Air Compressors	1	6	78	0.48	225	1,141
CONSTRUCTION FUEL DEMAND (gallons of diesel fuel)								43,289

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)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)[2]	Estimated Fuel Consumption (gallons)
Demolition	52	15	14.7	11,466	26.38	435
Site Preparation	9	18	14.7	2,381	26.38	90
Grading	42	20	14.7	12,348	26.38	468
Building Construction	153	251	14.7	564,524	26.38	21,400
Paving	42	15	14.7	9,261	26.38	351
Architectural Coating	94	50	14.7	69,090	26.38	2,619
Total Construction Worker Fuel Consumption						25,363

Notes:

(1) Assumptions for the worker trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.

(2) CalEEMod worker vehicle class is based on an LD_Mix, which, per CalEEMod User's Guide (May 2021), inlcudes LDA, LDT1, and LDT2 at a mix of 50%/25%/25%, respectively.

Table 28
Construction Vendor Fuel Consumption Estimates (MHD & HHD Trucks)[1]

Phase	Number of Days	Vendor Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)[2]	Estimated Fuel Consumption (gallons)
Demolition	52	0	6.9	0	6.73	0
Site Preparation	9	0	6.9	0	6.73	0
Grading	42	0	6.9	0	6.73	0
Building Construction	153	98	6.9	103,459	6.73	15,373
Paving	42	0	6.9	0	6.73	0
Architectural Coating	94	0	6.9	0	6.73	0
Total Construction Vendor Fuel Consumption						15,373

Notes:

(1) Assumptions for the vendor trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.

(2) CalEEMod vendor vehicle class is based on an HDT_Mix, which, per CalEEMod User's Guide (May 2021), inlcudes HHDT and MHDT at a mix of 50%/50%.

Table 29
Construction Hauling Fuel Consumption Estimates (HHD Trucks)[1]

Phase	Number of Days	Total Hauling Trips	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition	52	2,359	20	47,180	5.87	8,037
Site Preparation	9	0	20	0	5.87	0
Grading	42	0	20	0	5.87	0
Building Construction	153	0	20	0	5.87	0
Paving	42	0	20	0	5.87	0
Architectural Coating	94	0	20	0	5.87	0
Total Construction Hauling Fuel Consumption						8,037

Notes:

(1) Assumptions for the hauling trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.

Table 30
Estimated Vehicle Operations Fuel Consumption

Vehicle Type	Vehicle Mix	Number of Vehicles	Average Trip (miles)[1]	Daily VMT	Average Fuel Economy (mpg)	Total Gallons per Day	Total Annual Fuel Consumption (gallons)
Light Auto	Automobile	486	6.9	3,353	29.76	112.68	41,129
Light Truck	Automobile	56	6.9	386	28.21	13.70	5,000
Light Truck	Automobile	167	6.9	1,152	23.05	49.99	18,247
Medium Truck	Automobile	114	6.9	787	19.28	40.80	14,892
Light Heavy Truck	2-Axle Truck	10	6.9	69	14.37	4.80	1,753
Light Heavy Truck 10,000 lbs +	2-Axle Truck	3	6.9	21	17.53	1.18	431
Medium Heavy Truck	3-Axle Truck	1	40	40	7.69	5.20	1,899
Heavy Heavy Truck	4-Axle Truck	127	40	5,080	5.97	850.92	310,586
Total		995	--	10,888	12.38	1,079.27	--
Total Annual Fuel Consumption							393,935

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[1,2]
Industrial Park	3,039,390
Total	3,039,390

Electricity Demand	kWh/year
Industrial Park	3,685,000
Parking Lot	58,240
Total	3,743,240

Notes:

(1) Taken from the CalEEMod 2020.4.0 annual output (Appendix D of this report).

6. EMISSIONS REDUCTION MEASURES

CONSTRUCTION MEASURES

Adherence to SCAQMD Rule 403 is required.

No construction mitigation is required.

OPERATIONAL MEASURES

No operational mitigation is required.

7. REFERENCES

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

2008 Recommended Approaches for Setting Interim Significance Thresholds for Greenhouse Gases under the California Environmental Quality Act

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

2008 Climate Change Scoping Plan, a framework for change.

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

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

2014 First Update to the Climate Change Scoping Plan, Building on the Framework Pursuant to AB32, the California Global Warming Solutions Act of 2006. May.

2017 California's 2017 Climate Change Scoping Plan. November.

2021 Historical Air Quality, Top 4 Summary

City of Whittier

2021 Envision Whittier Draft General Plan. June 2021.

Ganddini Group, Inc.

2022 Whittier Boulevard Business Park Impact Analysis. January 24.

Governor's Office of Planning and Research

2008 CEQA and Climate: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review

2018 CEQA Guideline Sections to be Added or Amended

Intergovernmental Panel on Climate Change (IPCC).

2014 IPCC Fifth Assessment Report, Climate Change 2014: Synthesis Report

Office of Environmental Health Hazard Assessment

2015 Air Toxics Hot Spots Program Risk Assessment Guidelines

South Coast Air Quality Management District

1993 CEQA Air Quality Handbook

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

2005 Rule 403 Fugitive Dust

2007 2007 Air Quality Management Plan

2008 Final Localized Significance Threshold Methodology, Revised

2012 Final 2012 Air Quality Management Plan

2016 2016 Air Quality Management Plan

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

2021 Historical Data by Year. 2013, 2014 and 2015 Air Quality Data Tables.
Source: http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year

Southern California Association of Governments

2020 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy

U.S. Environmental Protection Agency (EPA)

2017 Understanding Global Warming Potentials
(Source: https://www.epa.gov/ghgemissions/understanding-global-warming-potentials)

U.S. Geological Survey

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

APPENDICES

Appendix A Glossary of Terms

Appendix B CalEEMod Model Daily Emissions Printouts

Appendix C HRA Data and AERMOD Model Printouts

Appendix D CalEEMod Model Annual Emissions Printouts and EMFAC Data

APPENDIX A

GLOSSARY OF TERMS

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 DAILY EMISSIONS PRINTOUTS

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

19391 Whittier Boulevard Business Park

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	294.80	1000sqft	6.63	294,800.00	0
Other Non-Asphalt Surfaces	3.12	Acre	3.12	135,907.20	0
Parking Lot	416.00	Space	3.74	166,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 13.49 acres w/ 294,800 square feet industrial bldg (288,800 square foot footprint), 416 space parking lot, & remainder (~3.12 acre) landscaping/harscape).

Construction Phase - Per project applicant, construction to begin 12-1-2022 with demo lasting 52 days, site prep 9 days, grading 42 days, construction 153 days, paving 42 days, and coating 94 days. TIA OY is 2023.

Demolition - Existing ~213,430 sf bldg and ~305,150 sf existing paving to be demolished (total demo = ~518,580).

Grading - Site anticipated to balance.

Vehicle Trips - TIA 3.37 trips/TSF. Percentages changed to 84.9% autos (CNW) & 15.1% trucks (C-W). Per SCAQMD C-W trip length changed to 40 miles.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site is ~0.86 miles SW of downtown area of Whittier & ~0.22 miles NW of bus stop at Pickering/Walnut.

Water Mitigation - 20% reduction indoor water use per CalGreen standards. Water efficient irrigation systems.

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle fleet mix per traffic study of 84.9% Autos, 1.2% 2-Axle Trucks, 1.1% 3-Axle Trucks and 12.8% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	NumDays	20.00	52.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	300.00	153.00
tblConstructionPhase	NumDays	20.00	94.00
tblConstructionPhase	NumDays	20.00	42.00
tblFleetMix	HHD	8.0120e-003	0.13
tblFleetMix	LDA	0.54	0.49
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LHD1	0.02	9.4980e-003
tblFleetMix	LHD2	6.0830e-003	2.5020e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblLandUse	LotAcreage	6.77	6.63
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	84.90
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	15.10

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	ST_TR	2.54	3.37
tblVehicleTrips	SU_TR	1.24	3.70

2.0 Emissions Summary

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2324	33.3764	22.9618	0.0685	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	6,991.1649	6,991.1649	1.2207	0.4938	7,168.8234
2023	34.1219	34.5603	45.5476	0.1022	10.7784	1.4258	11.8143	3.7130	1.3118	5.0248	0.0000	10,206.8667	10,206.8667	1.9493	0.4664	10,349.7954
Maximum	**34.1219**	**34.5603**	**45.5476**	**0.1022**	**19.8582**	**1.6139**	**21.4721**	**10.1558**	**1.4848**	**11.6406**	**0.0000**	**10,206.8667**	**10,206.8667**	**1.9493**	**0.4938**	**10,349.7954**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2324	33.3764	22.9618	0.0685	7.8674	1.6139	9.4813	3.9933	1.4848	5.4781	0.0000	6,991.1649	6,991.1649	1.2207	0.4938	7,168.8234
2023	34.1219	34.5603	45.5476	0.1022	4.7903	1.4258	5.8261	1.4843	1.3118	2.7960	0.0000	10,206.8667	10,206.8667	1.9493	0.4664	10,349.7954
Maximum	**34.1219**	**34.5603**	**45.5476**	**0.1022**	**7.8674**	**1.6139**	**9.4813**	**3.9933**	**1.4848**	**5.4781**	**0.0000**	**10,206.8667**	**10,206.8667**	**1.9493**	**0.4938**	**10,349.7954**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	58.68	0.00	54.01	60.50	0.00	50.35	0.00	0.00	0.00	0.00	0.00	0.00

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.7226	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Energy	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
Mobile	3.3039	12.6713	35.5937	0.1098	8.4415	0.1022	8.5437	2.2526	0.0963	2.3489		11,556.5790	11,556.5790	0.6349	0.9673	11,860.7174
Total	**10.1163**	**13.4883**	**36.3523**	**0.1147**	**8.4415**	**0.1645**	**8.6060**	**2.2526**	**0.1586**	**2.4112**		**12,536.3930**	**12,536.3930**	**0.6541**	**0.9853**	**12,846.3632**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.7226	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Energy	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
Mobile	2.7371	9.4865	26.0839	0.0755	5.6905	0.0705	5.7610	1.5185	0.0664	1.5849		7,943.7127	7,943.7127	0.4665	0.6870	8,160.1004
Total	**9.5495**	**10.3035**	**26.8425**	**0.0804**	**5.6905**	**0.1328**	**5.8233**	**1.5185**	**0.1287**	**1.6472**		**8,923.5267**	**8,923.5267**	**0.4857**	**0.7050**	**9,145.7462**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.60**	**23.61**	**26.16**	**29.93**	**32.59**	**19.31**	**32.33**	**32.59**	**18.89**	**31.69**	**0.00**	**28.82**	**28.82**	**25.75**	**28.45**	**28.81**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/11/2022	2/23/2022	5	9	
2	Demolition	Demolition	12/1/2022	2/10/2023	5	52	
3	Grading	Grading	2/24/2023	4/24/2023	5	42	
4	Building Construction	Building Construction	4/25/2023	11/23/2023	5	153	
5	Architectural Coating	Architectural Coating	8/8/2023	12/15/2023	5	94	
6	Paving	Paving	10/19/2023	12/15/2023	5	42	

Acres of Grading (Site Preparation Phase): 13.5

Acres of Grading (Grading Phase): 126

Acres of Paving: 6.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 442,200; Non-Residential Outdoor: 147,400; Striped Parking Area: 18,138 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,359.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	251.00	98.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
Total	**0.0623**	**0.0455**	**0.7094**	**1.8400e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0546**		**187.2229**	**187.2229**	**5.0700e-003**	**4.5000e-003**	**188.6918**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**7.6662**	**1.6126**	**9.2788**	**3.9400**	**1.4836**	**5.4235**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
Total	**0.0623**	**0.0455**	**0.7094**	**1.8400e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0546**		**187.2229**	**187.2229**	**5.0700e-003**	**4.5000e-003**	**188.6918**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.8167	0.0000	9.8167	1.4863	0.0000	1.4863			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**9.8167**	**1.2427**	**11.0593**	**1.4863**	**1.1553**	**2.6416**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2114	7.6191	1.7765	0.0282	0.7941	0.0566	0.8507	0.2177	0.0542	0.2719		3,088.3647	3,088.3647	0.1640	0.4900	3,238.4882
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
Total	**0.2633**	**7.6570**	**2.3677**	**0.0297**	**0.9617**	**0.0577**	**1.0194**	**0.2622**	**0.0552**	**0.3173**		**3,244.3837**	**3,244.3837**	**0.1683**	**0.4938**	**3,395.7314**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8285	0.0000	3.8285	0.5797	0.0000	0.5797			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**3.8285**	**1.2427**	**5.0712**	**0.5797**	**1.1553**	**1.7349**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2114	7.6191	1.7765	0.0282	0.7941	0.0566	0.8507	0.2177	0.0542	0.2719		3,088.3647	3,088.3647	0.1640	0.4900	3,238.4882
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
Total	**0.2633**	**7.6570**	**2.3677**	**0.0297**	**0.9617**	**0.0577**	**1.0194**	**0.2622**	**0.0552**	**0.3173**		**3,244.3837**	**3,244.3837**	**0.1683**	**0.4938**	**3,395.7314**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.8167	0.0000	9.8167	1.4863	0.0000	1.4863			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**9.8167**	**0.9975**	**10.8142**	**1.4863**	**0.9280**	**2.4143**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0984	5.9197	1.5800	0.0265	0.7941	0.0373	0.8314	0.2177	0.0357	0.2534		2,915.4523	2,915.4523	0.1607	0.4630	3,057.4341
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	**0.1464**	**5.9532**	**2.1236**	**0.0280**	**0.9618**	**0.0384**	**1.0001**	**0.2622**	**0.0367**	**0.2988**		**3,067.3442**	**3,067.3442**	**0.1645**	**0.4664**	**3,210.4522**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8285	0.0000	3.8285	0.5797	0.0000	0.5797			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**3.8285**	**0.9975**	**4.8260**	**0.5797**	**0.9280**	**1.5077**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0984	5.9197	1.5800	0.0265	0.7941	0.0373	0.8314	0.2177	0.0357	0.2534		2,915.4523	2,915.4523	0.1607	0.4630	3,057.4341
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	**0.1464**	**5.9532**	**2.1236**	**0.0280**	**0.9618**	**0.0384**	**1.0001**	**0.2622**	**0.0367**	**0.2988**		**3,067.3442**	**3,067.3442**	**0.1645**	**0.4664**	**3,210.4522**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**9.2036**	**1.4245**	**10.6281**	**3.6538**	**1.3105**	**4.9643**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242
Total	**0.0640**	**0.0447**	**0.7248**	**1.9800e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**202.5226**	**202.5226**	**5.0400e-003**	**4.6200e-003**	**204.0242**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.5894**	**1.4245**	**5.0139**	**1.4250**	**1.3105**	**2.7355**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242
Total	**0.0640**	**0.0447**	**0.7248**	**1.9800e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**202.5226**	**202.5226**	**5.0400e-003**	**4.6200e-003**	**204.0242**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1128	3.7616	1.4573	0.0182	0.6277	0.0189	0.6466	0.1808	0.0181	0.1988		1,962.7683	1,962.7683	0.0658	0.2822	2,048.5049
Worker	0.8038	0.5604	9.0956	0.0248	2.8056	0.0169	2.8225	0.7441	0.0156	0.7596		2,541.6581	2,541.6581	0.0633	0.0579	2,560.5033
Total	**0.9166**	**4.3219**	**10.5528**	**0.0431**	**3.4333**	**0.0358**	**3.4692**	**0.9248**	**0.0337**	**0.9585**		**4,504.4263**	**4,504.4263**	**0.1291**	**0.3401**	**4,609.0082**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1128	3.7616	1.4573	0.0182	0.6277	0.0189	0.6466	0.1808	0.0181	0.1988		1,962.7683	1,962.7683	0.0658	0.2822	2,048.5049
Worker	0.8038	0.5604	9.0956	0.0248	2.8056	0.0169	2.8225	0.7441	0.0156	0.7596		2,541.6581	2,541.6581	0.0633	0.0579	2,560.5033
Total	**0.9166**	**4.3219**	**10.5528**	**0.0431**	**3.4333**	**0.0358**	**3.4692**	**0.9248**	**0.0337**	**0.9585**		**4,504.4263**	**4,504.4263**	**0.1291**	**0.3401**	**4,609.0082**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.9667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**30.1583**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1601	0.1116	1.8119	4.9500e-003	0.5589	3.3700e-003	0.5623	0.1482	3.1000e-003	0.1513		506.3064	506.3064	0.0126	0.0115	510.0604
Total	**0.1601**	**0.1116**	**1.8119**	**4.9500e-003**	**0.5589**	**3.3700e-003**	**0.5623**	**0.1482**	**3.1000e-003**	**0.1513**		**506.3064**	**506.3064**	**0.0126**	**0.0115**	**510.0604**

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.9667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**30.1583**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1601	0.1116	1.8119	4.9500e-003	0.5589	3.3700e-003	0.5623	0.1482	3.1000e-003	0.1513		506.3064	506.3064	0.0126	0.0115	510.0604
Total	**0.1601**	**0.1116**	**1.8119**	**4.9500e-003**	**0.5589**	**3.3700e-003**	**0.5623**	**0.1482**	**3.1000e-003**	**0.1513**		**506.3064**	**506.3064**	**0.0126**	**0.0115**	**510.0604**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2660**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	**0.0480**	**0.0335**	**0.5436**	**1.4800e-003**	**0.1677**	**1.0100e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**		**151.8919**	**151.8919**	**3.7800e-003**	**3.4600e-003**	**153.0181**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2660**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	**0.0480**	**0.0335**	**0.5436**	**1.4800e-003**	**0.1677**	**1.0100e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**		**151.8919**	**151.8919**	**3.7800e-003**	**3.4600e-003**	**153.0181**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7371	9.4865	26.0839	0.0755	5.6905	0.0705	5.7610	1.5185	0.0664	1.5849		7,943.7127	7,943.7127	0.4665	0.6870	8,160.1004
Unmitigated	3.3039	12.6713	35.5937	0.1098	8.4415	0.1022	8.5437	2.2526	0.0963	2.3489		11,556.5790	11,556.5790	0.6349	0.9673	11,860.7174

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	993.48	993.48	1090.76	3,654,615	2,463,624
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	993.48	993.48	1,090.76	3,654,615	2,463,624

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	40.00	8.40	6.90	15.10	0.00	84.90	79	19	2
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.488544	0.056356	0.168124	0.114100	0.009498	0.002502	0.011000	0.128000	0.000000	0.000000	0.021876	0.000000	0.000000
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
NaturalGas Unmitigated	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	8327.09	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0898**	**0.8164**	**0.6858**	**4.9000e-003**		**0.0620**	**0.0620**		**0.0620**	**0.0620**		**979.6577**	**979.6577**	**0.0188**	**0.0180**	**985.4793**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	8.32709	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0898**	**0.8164**	**0.6858**	**4.9000e-003**		**0.0620**	**0.0620**		**0.0620**	**0.0620**		**979.6577**	**979.6577**	**0.0188**	**0.0180**	**985.4793**

6.0 Area Detail

6.1 Mitigation Measures Area

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.7226	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Unmitigated	6.7226	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7717					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7500e-003	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Total	**6.7226**	**6.6000e-004**	**0.0729**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**		**0.1562**	**0.1562**	**4.1000e-004**		**0.1665**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7717					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7500e-003	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Total	**6.7226**	**6.6000e-004**	**0.0729**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**		**0.1562**	**0.1562**	**4.1000e-004**		**0.1665**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

19391 Whittier Boulevard Business Park

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	294.80	1000sqft	6.63	294,800.00	0
Other Non-Asphalt Surfaces	3.12	Acre	3.12	135,907.20	0
Parking Lot	416.00	Space	3.74	166,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 13.49 acres w/ 294,800 square feet industrial bldg (288,800 square foot footprint), 416 space parking lot, & remainder (~3.12 acre) landscaping/harscape).

Construction Phase - Per project applicant, construction to begin 12-1-2022 with demo lasting 52 days, site prep 9 days, grading 42 days, construction 153 days, paving 42 days, and coating 94 days. TIA OY is 2023.

Demolition - Existing ~213,430 sf bldg and ~305,150 sf existing paving to be demolished (total demo = ~518,580).

Grading - Site anticipated to balance.

Vehicle Trips - TIA 3.37 trips/TSF. Percentages changed to 84.9% autos (CNW) & 15.1% trucks (C-W). Per SCAQMD C-W trip length changed to 40 miles.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site is ~0.86 miles SW of downtown area of Whittier & ~0.22 miles NW of bus stop at Pickering/Walnut.

Water Mitigation - 20% reduction indoor water use per CalGreen standards. Water efficient irrigation systems.

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle fleet mix per traffic study of 84.9% Autos, 1.2% 2-Axle Trucks, 1.1% 3-Axle Trucks and 12.8% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	NumDays	20.00	52.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	300.00	153.00
tblConstructionPhase	NumDays	20.00	94.00
tblConstructionPhase	NumDays	20.00	42.00
tblFleetMix	HHD	8.0120e-003	0.13
tblFleetMix	LDA	0.54	0.49
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LHD1	0.02	9.4980e-003
tblFleetMix	LHD2	6.0830e-003	2.5020e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblLandUse	LotAcreage	6.77	6.63
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	84.90
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	15.10

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	ST_TR	2.54	3.37
tblVehicleTrips	SU_TR	1.24	3.70

2.0 Emissions Summary

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2368	33.6895	22.9446	0.0685	19.8582	1.6139	21.4721	10.1558	1.4848	11.6406	0.0000	6,983.8212	6,983.8212	1.2205	0.4942	7,161.5984
2023	34.1933	34.5649	44.6677	0.1006	10.7784	1.4258	11.8144	3.7130	1.3118	5.0248	0.0000	10,041.4775	10,041.4775	1.9493	0.4672	10,186.1318
Maximum	**34.1933**	**34.5649**	**44.6677**	**0.1006**	**19.8582**	**1.6139**	**21.4721**	**10.1558**	**1.4848**	**11.6406**	**0.0000**	**10,041.4775**	**10,041.4775**	**1.9493**	**0.4942**	**10,186.1318**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2368	33.6895	22.9446	0.0685	7.8674	1.6139	9.4813	3.9933	1.4848	5.4781	0.0000	6,983.8212	6,983.8212	1.2205	0.4942	7,161.5984
2023	34.1933	34.5649	44.6677	0.1006	4.7903	1.4258	5.8262	1.4843	1.3118	2.7960	0.0000	10,041.4775	10,041.4775	1.9493	0.4672	10,186.1318
Maximum	**34.1933**	**34.5649**	**44.6677**	**0.1006**	**7.8674**	**1.6139**	**9.4813**	**3.9933**	**1.4848**	**5.4781**	**0.0000**	**10,041.4775**	**10,041.4775**	**1.9493**	**0.4942**	**10,186.1318**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	58.68	0.00	54.01	60.50	0.00	50.35	0.00	0.00	0.00	0.00	0.00	0.00

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.7226	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Energy	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
Mobile	3.2355	13.3884	34.7774	0.1067	8.4415	0.1025	8.5441	2.2526	0.0966	2.3492		11,242.1509	11,242.1509	0.6466	0.9819	11,550.9083
Total	**10.0479**	**14.2054**	**35.5360**	**0.1116**	**8.4415**	**0.1648**	**8.6064**	**2.2526**	**0.1589**	**2.4115**		**12,221.9648**	**12,221.9648**	**0.6658**	**0.9998**	**12,536.5541**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	6.7226	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Energy	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
Mobile	2.6643	10.0438	25.8424	0.0734	5.6905	0.0708	5.7613	1.5185	0.0667	1.5851		7,735.3778	7,735.3778	0.4789	0.6984	7,955.4667
Total	**9.4767**	**10.8609**	**26.6010**	**0.0783**	**5.6905**	**0.1331**	**5.8236**	**1.5185**	**0.1290**	**1.6474**		**8,715.1917**	**8,715.1917**	**0.4981**	**0.7163**	**8,941.1125**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.69**	**23.54**	**25.14**	**29.83**	**32.59**	**19.28**	**32.33**	**32.59**	**18.85**	**31.68**	**0.00**	**28.69**	**28.69**	**25.18**	**28.35**	**28.68**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/11/2022	2/23/2022	5	9	
2	Demolition	Demolition	12/1/2022	2/10/2023	5	52	
3	Grading	Grading	2/24/2023	4/24/2023	5	42	
4	Building Construction	Building Construction	4/25/2023	11/23/2023	5	153	
5	Architectural Coating	Architectural Coating	8/8/2023	12/15/2023	5	94	
6	Paving	Paving	10/19/2023	12/15/2023	5	42	

Acres of Grading (Site Preparation Phase): 13.5

Acres of Grading (Grading Phase): 126

Acres of Paving: 6.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 442,200; Non-Residential Outdoor: 147,400; Striped Parking Area: 18,138 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,359.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	251.00	98.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
Total	**0.0667**	**0.0503**	**0.6514**	**1.7400e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0546**		**177.3240**	**177.3240**	**5.1300e-003**	**4.8100e-003**	**178.8864**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**7.6662**	**1.6126**	**9.2788**	**3.9400**	**1.4836**	**5.4235**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
Total	**0.0667**	**0.0503**	**0.6514**	**1.7400e-003**	**0.2012**	**1.2900e-003**	**0.2025**	**0.0534**	**1.1900e-003**	**0.0546**		**177.3240**	**177.3240**	**5.1300e-003**	**4.8100e-003**	**178.8864**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.8167	0.0000	9.8167	1.4863	0.0000	1.4863			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**9.8167**	**1.2427**	**11.0593**	**1.4863**	**1.1553**	**2.6416**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2063	7.9283	1.8078	0.0282	0.7941	0.0567	0.8508	0.2177	0.0543	0.2720		3,089.2700	3,089.2700	0.1638	0.4902	3,239.4344
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
Total	**0.2619**	**7.9701**	**2.3506**	**0.0297**	**0.9617**	**0.0578**	**1.0195**	**0.2622**	**0.0553**	**0.3174**		**3,237.0400**	**3,237.0400**	**0.1680**	**0.4942**	**3,388.5064**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8285	0.0000	3.8285	0.5797	0.0000	0.5797			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**3.8285**	**1.2427**	**5.0712**	**0.5797**	**1.1553**	**1.7349**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2063	7.9283	1.8078	0.0282	0.7941	0.0567	0.8508	0.2177	0.0543	0.2720		3,089.2700	3,089.2700	0.1638	0.4902	3,239.4344
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
Total	**0.2619**	**7.9701**	**2.3506**	**0.0297**	**0.9617**	**0.0578**	**1.0195**	**0.2622**	**0.0553**	**0.3174**		**3,237.0400**	**3,237.0400**	**0.1680**	**0.4942**	**3,388.5064**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.8167	0.0000	9.8167	1.4863	0.0000	1.4863			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**9.8167**	**0.9975**	**10.8142**	**1.4863**	**0.9280**	**2.4143**		**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0920	6.1807	1.6017	0.0266	0.7941	0.0374	0.8315	0.2177	0.0358	0.2535		2,918.5253	2,918.5253	0.1603	0.4635	3,060.6477
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	**0.1437**	**6.2177**	**2.1014**	**0.0280**	**0.9618**	**0.0385**	**1.0002**	**0.2622**	**0.0368**	**0.2989**		**3,062.4093**	**3,062.4093**	**0.1642**	**0.4672**	**3,205.7295**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.8285	0.0000	3.8285	0.5797	0.0000	0.5797			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	**2.2691**	**21.4844**	**19.6434**	**0.0388**	**3.8285**	**0.9975**	**4.8260**	**0.5797**	**0.9280**	**1.5077**	**0.0000**	**3,746.9840**	**3,746.9840**	**1.0494**		**3,773.2183**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0920	6.1807	1.6017	0.0266	0.7941	0.0374	0.8315	0.2177	0.0358	0.2535		2,918.5253	2,918.5253	0.1603	0.4635	3,060.6477
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	**0.1437**	**6.2177**	**2.1014**	**0.0280**	**0.9618**	**0.0385**	**1.0002**	**0.2622**	**0.0368**	**0.2989**		**3,062.4093**	**3,062.4093**	**0.1642**	**0.4672**	**3,205.7295**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**9.2036**	**1.4245**	**10.6281**	**3.6538**	**1.3105**	**4.9643**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424
Total	**0.0688**	**0.0493**	**0.6662**	**1.8700e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**191.8453**	**191.8453**	**5.1100e-003**	**4.9300e-003**	**193.4424**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**3.5894**	**1.4245**	**5.0139**	**1.4250**	**1.3105**	**2.7355**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424
Total	**0.0688**	**0.0493**	**0.6662**	**1.8700e-003**	**0.2236**	**1.3500e-003**	**0.2249**	**0.0593**	**1.2400e-003**	**0.0605**		**191.8453**	**191.8453**	**5.1100e-003**	**4.9300e-003**	**193.4424**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1090	3.9383	1.5031	0.0183	0.6277	0.0190	0.6468	0.1808	0.0182	0.1990		1,966.0790	1,966.0790	0.0655	0.2829	2,052.0328
Worker	0.8636	0.6190	8.3603	0.0235	2.8056	0.0169	2.8225	0.7441	0.0156	0.7596		2,407.6591	2,407.6591	0.0642	0.0619	2,427.7025
Total	**0.9725**	**4.5573**	**9.8634**	**0.0418**	**3.4333**	**0.0360**	**3.4693**	**0.9248**	**0.0338**	**0.9586**		**4,373.7380**	**4,373.7380**	**0.1297**	**0.3448**	**4,479.7353**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1090	3.9383	1.5031	0.0183	0.6277	0.0190	0.6468	0.1808	0.0182	0.1990		1,966.0790	1,966.0790	0.0655	0.2829	2,052.0328
Worker	0.8636	0.6190	8.3603	0.0235	2.8056	0.0169	2.8225	0.7441	0.0156	0.7596		2,407.6591	2,407.6591	0.0642	0.0619	2,427.7025
Total	**0.9725**	**4.5573**	**9.8634**	**0.0418**	**3.4333**	**0.0360**	**3.4693**	**0.9248**	**0.0338**	**0.9586**		**4,373.7380**	**4,373.7380**	**0.1297**	**0.3448**	**4,479.7353**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.9667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**30.1583**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1720	0.1233	1.6654	4.6900e-003	0.5589	3.3700e-003	0.5623	0.1482	3.1000e-003	0.1513		479.6134	479.6134	0.0128	0.0123	483.6061
Total	**0.1720**	**0.1233**	**1.6654**	**4.6900e-003**	**0.5589**	**3.3700e-003**	**0.5623**	**0.1482**	**3.1000e-003**	**0.1513**		**479.6134**	**479.6134**	**0.0128**	**0.0123**	**483.6061**

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.9667					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**30.1583**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1720	0.1233	1.6654	4.6900e-003	0.5589	3.3700e-003	0.5623	0.1482	3.1000e-003	0.1513		479.6134	479.6134	0.0128	0.0123	483.6061
Total	**0.1720**	**0.1233**	**1.6654**	**4.6900e-003**	**0.5589**	**3.3700e-003**	**0.5623**	**0.1482**	**3.1000e-003**	**0.1513**		**479.6134**	**479.6134**	**0.0128**	**0.0123**	**483.6061**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2660**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	**0.0516**	**0.0370**	**0.4996**	**1.4100e-003**	**0.1677**	**1.0100e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**		**143.8840**	**143.8840**	**3.8300e-003**	**3.7000e-003**	**145.0818**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2333					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2660**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	**0.0516**	**0.0370**	**0.4996**	**1.4100e-003**	**0.1677**	**1.0100e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**		**143.8840**	**143.8840**	**3.8300e-003**	**3.7000e-003**	**145.0818**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6643	10.0438	25.8424	0.0734	5.6905	0.0708	5.7613	1.5185	0.0667	1.5851		7,735.3778	7,735.3778	0.4789	0.6984	7,955.4667
Unmitigated	3.2355	13.3884	34.7774	0.1067	8.4415	0.1025	8.5441	2.2526	0.0966	2.3492		11,242.1509	11,242.1509	0.6466	0.9819	11,550.9083

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	993.48	993.48	1090.76	3,654,615	2,463,624
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	993.48	993.48	1,090.76	3,654,615	2,463,624

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	40.00	8.40	6.90	15.10	0.00	84.90	79	19	2
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.488544	0.056356	0.168124	0.114100	0.009498	0.002502	0.011000	0.128000	0.000000	0.000000	0.021876	0.000000	0.000000
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
NaturalGas Unmitigated	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	8327.09	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0898**	**0.8164**	**0.6858**	**4.9000e-003**		**0.0620**	**0.0620**		**0.0620**	**0.0620**		**979.6577**	**979.6577**	**0.0188**	**0.0180**	**985.4793**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	8.32709	0.0898	0.8164	0.6858	4.9000e-003		0.0620	0.0620		0.0620	0.0620		979.6577	979.6577	0.0188	0.0180	985.4793
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0898**	**0.8164**	**0.6858**	**4.9000e-003**		**0.0620**	**0.0620**		**0.0620**	**0.0620**		**979.6577**	**979.6577**	**0.0188**	**0.0180**	**985.4793**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.7226	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Unmitigated	6.7226	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7717					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7500e-003	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Total	**6.7226**	**6.6000e-004**	**0.0729**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**		**0.1562**	**0.1562**	**4.1000e-004**		**0.1665**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7717					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.9441					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7500e-003	6.6000e-004	0.0729	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1562	0.1562	4.1000e-004		0.1665
Total	**6.7226**	**6.6000e-004**	**0.0729**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**		**0.1562**	**0.1562**	**4.1000e-004**		**0.1665**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX C

HRA DATA AND AERMOD MODEL PRINTOUTS

Emission Assumptions **DPM** Emissions

19391 Whittier Blvd BP

Facility Operations

Buildout year: 2023

Emission Factors

1) Onsite Vehicle Emissions

a) Truck

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

(a) Annual Meteorology

Temperature: 50 degF

Relative Humidity: 50%

(b) Calculations for 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

19391 Whittier Blvd BP		**Emission:**	**DPM**									
Processes Modeled		**Build-out:**	**2023**									
Onsite delivery traffic												
Truck idling												
Offsite delivery traffic												
Facilities in Operation												
Location	**Truck type**	**Daily trucks**										
Project Site	HHDT	127										
Project Site	MHDT	11										
Project Site	LHDT2	12										
Total		**150**										
Delivery Schedule:												
	24	**hrs/day, 52 weeks/year**										
Emission Factors 1 Year (2023)	**Onsite Exhaust**	**Offsite Exhaust**	**Idle**									
Vehicle Class	**(g/mi)**	**(g/mi)**	**(g/hr)**									
HHDT	0.01258	0.00856	0.01631									
MHDT	0.04522	0.01037	0.08675									
LHDT2	0.05961	0.02374	0.77884									

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)	
Along south of building to Southern Project Driveway	HHDT	0.01258	127	220.9	0.14	2.19E-01	2.54E-06	1.74E+00	4.83E-04	8.81E-05		
Along south of building to Southern Project Driveway	MHDT	0.04522	11	220.9	0.14	6.83E-02	7.90E-07	5.41E-01	1.50E-04	2.74E-05	**4.46E-06**	100% of trucks
Along south of building to Southern Project Driveway	LHDT2	0.05961	12	220.9	0.14	9.82E-02	1.14E-06	7.78E-01	2.16E-04	3.95E-05		

Truck Idling

Idle time: 15 minutes

Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)		
At loading docks & entrance/exit driveway	HHDT	0.01631	15	127	0.52	5.99E-06	4.75E-05	1.14E-03	2.08E-04			
At loading docks & entrance/exit driveway	MHDT	0.08675	15	11	0.24	2.76E-06	2.19E-05	5.25E-04	9.59E-05		3.58E-05	
At loading docks & entrance/exit driveway	LHDT2	0.77884	15	12	2.34	2.70E-05	2.14E-04	5.15E-03	9.39E-04		**7.16E-06**	per idling location
												(5 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)		
From project driveway s/b along Whittier Frontage Road	HHDT	0.00856	127	263.8	0.16	1.78E-01	2.06E-06	1.41E+00	3.93E-04	7.16E-05	100% of trucks	
From project driveway s/b along Whittier Frontage Road	MHDT	0.01037	11	263.8	0.16	1.87E-02	2.16E-07	1.48E-01	4.12E-05	7.52E-06	**2.82E-06**	
From project driveway s/b along Whittier Frontage Road	LHDT2	0.02374	12	263.8	0.16	4.67E-02	5.40E-07	3.70E-01	1.03E-04	1.88E-05		
South on Whittier Blvd to Washington Blvd	HHDT	0.01179	127	940.8	0.58	8.75E-01	1.01E-05	6.94E+00	1.93E-03	3.52E-04	50% of trucks	
South on Whittier Blvd to Washington Blvd	MHDT	0.01346	11	940.8	0.58	8.66E-02	1.00E-06	6.86E-01	1.91E-04	3.48E-05	**6.63E-06**	
South on Whittier Blvd to Washington Blvd	LHDT2	0.02624	12	940.8	0.58	1.84E-01	2.13E-06	1.46E+00	4.05E-04	7.40E-05		
Northbound along Whittier Blvd	HHDT	0.01179	127	1076.5	0.67	1.00E+00	1.16E-05	7.94E+00	2.21E-03	4.03E-04	50% of trucks	
Northbound along Whittier Blvd	MHDT	0.01346	11	1076.5	0.67	9.90E-02	1.15E-06	7.85E-01	2.18E-04	3.98E-05	**7.59E-06**	
Northbound along Whittier Blvd	LHDT2	0.02624	12	1076.5	0.67	2.11E-01	2.44E-06	1.67E+00	4.64E-04	8.47E-05		

19391 Whittier Blvd BP		**Emission:**	**DPM**									
Processes Modeled		**Build-out:**	**2023**									
Onsite delivery traffic												
Truck idling												
Offsite delivery traffic												
Facilities in Operation												
Location	**Truck type**	**Daily trucks**										
Project Site	HHDT	127										
Project Site	MHDT	11										
Project Site	LHDT2	12										
Total		**150**										
Delivery Schedule:												
	24	**hrs/day, 52weeks/year**										
Emission Factors 2 Year (2024&2025)	**Onsite Exhaust**	**Offsite Exhaust**	**Idle**									
Vehicle Class	**(g/mi)**	**(g/mi)**	**(g/hr)**									
HHDT	0.01198	0.00811	0.01500									
MHDT	0.03520	0.00833	0.06652									
LHDT2	0.05232	0.02124	0.77760									
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)**	
Along south of building to Southern Project Driveway	HHDT	0.01198	127	220.9	0.14	2.09E-01	2.42E-06	1.66E+00	4.60E-04	8.39E-05		
Along south of building to Southern Project Driveway	MHDT	0.03520	11	220.9	0.14	5.31E-02	6.15E-07	4.21E-01	1.17E-04	2.14E-05	**4.03E-06**	100% of trucks
Along south of building to Southern Project Driveway	LHDT2	0.05232	12	220.9	0.14	8.62E-02	9.97E-07	6.83E-01	1.90E-04	3.46E-05		
Truck Idling	Idle time		15	minutes								
Building/Location	**Truck Type**	**Emission Factor (g/idle-hour)**	**Idling Time (min)**	**Daily Trucks**	**Total Emissions (g/day)**	**Max Hourly Emissions (g/sec)**	**Max Hourly Emissions (lb/hr)**	**Total Daily Emissions (lbs/day)**	**Total Emissions (tons/yr)**	**Total Emissions (tons/yr)**		
At loading docks & entrance/exit driveway	HHDT	0.01500	15	127	0.48	5.51E-06	4.37E-05	1.05E-03	1.91E-04			
At loading docks & entrance/exit driveway	MHDT	0.06652	15	11	0.18	2.12E-06	1.68E-05	4.03E-04	7.35E-05		3.46E-05	
At loading docks & entrance/exit driveway	LHDT2	0.77760	15	12	2.33	2.70E-05	2.14E-04	5.14E-03	9.38E-04		**6.93E-06**	per idling location
												(5 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)**		
From project driveway s/b along Whittier Frontage Road	HHDT	0.00811	127	263.8	0.16	1.69E-01	1.95E-06	1.34E+00	3.72E-04	6.79E-05	100% of trucks	
From project driveway s/b along Whittier Frontage Road	MHDT	0.00833	11	263.8	0.16	1.50E-02	1.74E-07	1.19E-01	3.31E-05	6.03E-06	**2.61E-06**	
From project driveway s/b along Whittier Frontage Road	LHDT2	0.02124	12	263.8	0.16	4.18E-02	4.83E-07	3.31E-01	9.20E-05	1.68E-05		
South on Whittier Blvd to Washington Blvd	HHDT	0.00841	127	940.8	0.58	6.24E-01	7.23E-06	4.95E+00	1.38E-03	2.51E-04	50% of trucks	
South on Whittier Blvd to Washington Blvd	MHDT	0.00967	11	940.8	0.58	6.22E-02	7.19E-07	4.93E-01	1.37E-04	2.50E-05	**4.90E-06**	
South on Whittier Blvd to Washington Blvd	LHDT2	0.02283	12	940.8	0.58	1.60E-01	1.85E-06	1.27E+00	3.53E-04	6.44E-05		
Northbound along Whittier Blvd	HHDT	0.00841	127	1076.5	0.67	7.14E-01	8.27E-06	5.67E+00	1.57E-03	2.87E-04	50% of trucks	
Northbound along Whittier Blvd	MHDT	0.00967	11	1076.5	0.67	7.11E-02	8.23E-07	5.64E-01	1.57E-04	2.86E-05	**5.61E-06**	
Northbound along Whittier Blvd	LHDT2	0.02283	12	1076.5	0.67	1.83E-01	2.12E-06	1.45E+00	4.04E-04	7.37E-05		

19391 Whittier Blvd BP		Emission:	DPM									
Processes Modeled		**Build-out:**	**2023**									
Onsite delivery traffic												
Truck idling												
Offsite delivery traffic												
Facilities in Operation												
Location	**Truck type**	**Daily trucks**										
Project Site	HHDT	127										
Project Site	MHDT	11										
Project Site	LHDT2	12										
Total		**150**										
Delivery Schedule:												
	24	**hrs/day, 52weeks/year**										
Emission Factors 14 Year 2026-2039	**Onsite Exhaust**	**Offsite Exhaust**	**Idle**									
Vehicle Class	**(g/mi)**	**(g/mi)**	**(g/hr)**									
HHDT	0.00969	0.00658	0.01135									
MHDT	0.01154	0.00340	0.02150									
LHDT2	0.03945	0.01734	0.76899									

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)	
Along south of building to Southern Project Driveway	HHDT	0.00969	127	220.9	0.14	1.69E-01	1.96E-06	1.34E+00	3.72E-04	6.79E-05		
Along south of building to Southern Project Driveway	MHDT	0.01154	11	220.9	0.14	1.74E-02	2.02E-07	1.38E-01	3.84E-05	7.00E-06	**2.91E-06**	100% of trucks
Along south of building to Southern Project Driveway	LHDT2	0.03945	12	220.9	0.14	6.50E-02	7.52E-07	5.15E-01	1.43E-04	2.61E-05		

Truck Idling

Idle time: 15 minutes

Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)		
At loading docks & entrance/exit driveway	HHDT	0.01135	15	127	0.36	4.17E-06	3.31E-05	7.94E-04	1.45E-04			
At loading docks & entrance/exit driveway	MHDT	0.02150	15	11	0.06	6.84E-07	5.43E-06	1.30E-04	2.38E-05		3.16E-05	
At loading docks & entrance/exit driveway	LHDT2	0.76899	15	12	2.31	2.67E-05	2.12E-04	5.08E-03	9.27E-04		**6.31E-06**	per idling location
												(5 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)		
From project driveway s/b along Whittier Frontage Road	HHDT	0.00658	127	263.8	0.16	1.37E-01	1.59E-06	1.09E+00	3.02E-04	5.51E-05	100% of trucks	
From project driveway s/b along Whittier Frontage Road	MHDT	0.00340	11	263.8	0.16	6.12E-03	7.09E-08	4.86E-02	1.35E-05	2.46E-06	**2.05E-06**	
From project driveway s/b along Whittier Frontage Road	LHDT2	0.01734	12	263.8	0.16	3.41E-02	3.95E-07	2.70E-01	7.51E-05	1.37E-05		
South on Whittier Blvd to Washington Blvd	HHDT	0.00674	127	940.8	0.58	5.00E-01	5.79E-06	3.96E+00	1.10E-03	2.01E-04	50% of trucks	
South on Whittier Blvd to Washington Blvd	MHDT	0.00381	11	940.8	0.58	2.45E-02	2.84E-07	1.94E-01	5.40E-05	9.85E-06	**3.75E-06**	
South on Whittier Blvd to Washington Blvd	LHDT2	0.01760	12	940.8	0.58	1.23E-01	1.43E-06	9.79E-01	2.72E-04	4.96E-05		
Northbound along Whittier Blvd	HHDT	0.00674	127	1076.5	0.67	5.72E-01	6.62E-06	4.54E+00	1.26E-03	2.30E-04	50% of trucks	
Northbound along Whittier Blvd	MHDT	0.00381	11	1076.5	0.67	2.80E-02	3.25E-07	2.22E-01	6.18E-05	1.13E-05	**4.29E-06**	
Northbound along Whittier Blvd	LHDT2	0.01760	12	1076.5	0.67	1.41E-01	1.64E-06	1.12E+00	3.11E-04	5.68E-05		

19391 Whittier Blvd BP		Emission:	DPM									
Processes Modeled		**Build-out:**	**2023**									
Onsite delivery traffic												
Truck idling												
Offsite delivery traffic												
Facilities in Operation												
Location	**Truck type**	**Daily trucks**										
Project Site	HHDT	127										
Project Site	MHDT	11										
Project Site	LHDT2	12										
Total		**150**										
Delivery Schedule:												
	24	**hrs/day, 52weeks/year**										
Emission Factors 14 Year 2040-2053	**Onsite Exhaust**	**Offsite Exhaust**	**Idle**									
Vehicle Class	**(g/mi)**	**(g/mi)**	**(g/hr)**									
HHDT	0.00821	0.00565	0.00975									
MHDT	0.00328	0.00154	0.00743									
LHDT2	0.03556	0.01660	0.76156									
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)**	
Along south of building to Southern Project Driveway	HHDT	0.00821	127	220.9	0.14	1.43E-01	1.66E-06	1.13E+00	3.15E-04	5.75E-05		
Along south of building to Southern Project Driveway	MHDT	0.00328	11	220.9	0.14	4.95E-03	5.73E-08	3.93E-02	1.09E-05	1.99E-06	**2.39E-06**	100% of trucks
Along south of building to Southern Project Driveway	LHDT2	0.03556	12	220.9	0.14	5.86E-02	6.78E-07	4.64E-01	1.29E-04	2.35E-05		
Truck Idling	Idle time		15 minutes									
Building/Location	**Truck Type**	**Emission Factor (g/idle-hour)**	**Idling Time (min)**	**Daily Trucks**	**Total Emissions (g/day)**	**Max Hourly Emissions (g/sec)**	**Max Hourly Emissions (lb/hr)**	**Total Daily Emissions (lbs/day)**	**Total Emissions (tons/yr)**	**Total Emissions (tons/yr)**		
At loading docks & entrance/exit driveway	HHDT	0.00975	15	127	0.31	3.58E-06	2.84E-05	6.82E-04	1.24E-04			
At loading docks & entrance/exit driveway	MHDT	0.00743	15	11	0.02	2.37E-07	1.88E-06	4.50E-05	8.21E-06		3.03E-05	
At loading docks & entrance/exit driveway	LHDT2	0.76156	15	12	2.28	2.64E-05	2.10E-04	5.03E-03	9.18E-04		**6.05E-06**	per idling location
												(5 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)**		
From project driveway s/b along Whittier Frontage Road	HHDT	0.00565	127	263.8	0.16	1.18E-01	1.36E-06	9.32E-01	2.59E-04	4.73E-05	100% of trucks	
From project driveway s/b along Whittier Frontage Road	MHDT	0.00154	11	263.8	0.16	2.78E-03	3.21E-08	2.20E-02	6.11E-06	1.12E-06	**1.77E-06**	
From project driveway s/b along Whittier Frontage Road	LHDT2	0.01660	12	263.8	0.16	3.26E-02	3.78E-07	2.59E-01	7.19E-05	1.31E-05		
South on Whittier Blvd to Washington Blvd	HHDT	0.00566	127	940.8	0.58	4.20E-01	4.87E-06	3.33E+00	9.26E-04	1.69E-04	50% of trucks	
South on Whittier Blvd to Washington Blvd	MHDT	0.00157	11	940.8	0.58	1.01E-02	1.17E-07	8.01E-02	2.22E-05	4.06E-06	**1.27E-07**	
South on Whittier Blvd to Washington Blvd	LHDT2	0.01666	12	940.8	0.58	1.17E-01	1.35E-06	9.27E-01	2.57E-04	4.70E-05		
Northbound along Whittier Blvd	HHDT	0.00566	127	1076.5	0.67	4.81E-01	5.57E-06	3.81E+00	1.06E-03	1.93E-04	50% of trucks	
Northbound along Whittier Blvd	MHDT	0.00157	11	1076.5	0.67	1.16E-02	1.34E-07	9.17E-02	2.55E-05	4.65E-06	**3.62E-06**	
Northbound along Whittier Blvd	LHDT2	0.01666	12	1076.5	0.67	1.34E-01	1.55E-06	1.06E+00	2.95E-04	5.38E-05		

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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 2/10/2022
** File: C:\Lakes\AERMOD View\19391 Whittier Blvd BP OY 2023\19391 Whittier Blvd BP OY 2023.ADI
**
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**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 19391 Whittier Blvd BP
   TITLETWO DPM Concentrations OY 2023
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "19391 Whittier Blvd BP OY 2023.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      403193.640  3759565.730       66.820
** DESCRSRC Truck idling Location
   LOCATION STCK2        POINT      403256.045  3759598.705       67.440
** DESCRSRC Truck idling Location
   LOCATION STCK3        POINT      403214.561  3759575.303       66.930
** DESCRSRC Truck idling Location
   LOCATION STCK4        POINT      403285.474  3759616.787       67.600
** DESCRSRC Truck idling Location
   LOCATION STCK5        POINT      403325.895  3759622.106       67.810
** DESCRSRC Truck idling Location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site truck travel
```

```
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.46E-06
** Elevated
** Building Height = 10.67
** SZINIT = 4.96
** Nodes = 6
** 403375.398, 3759658.946, 69.18, 3.50, 4.00
** 403366.638, 3759651.020, 68.32, 3.50, 4.00
** 403359.964, 3759643.512, 68.04, 3.50, 4.00
** 403352.039, 3759636.003, 68.03, 3.50, 4.00
** 403321.587, 3759619.318, 67.72, 3.50, 4.00
** 403188.103, 3759543.816, 66.04, 3.50, 4.00
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   LOCATION L0000001     VOLUME   403372.213 3759656.064 68.90
   LOCATION L0000002     VOLUME   403365.926 3759650.218 68.32
   LOCATION L0000003     VOLUME   403360.218 3759643.798 68.11
   LOCATION L0000004     VOLUME   403354.005 3759637.867 68.17
   LOCATION L0000005     VOLUME   403346.880 3759633.177 68.10
   LOCATION L0000006     VOLUME   403339.346 3759629.049 68.04
   LOCATION L0000007     VOLUME   403331.812 3759624.921 67.93
   LOCATION L0000008     VOLUME   403324.279 3759620.793 67.77
   LOCATION L0000009     VOLUME   403316.781 3759616.599 67.69
   LOCATION L0000010     VOLUME   403309.303 3759612.370 67.68
   LOCATION L0000011     VOLUME   403301.826 3759608.140 67.64
   LOCATION L0000012     VOLUME   403294.348 3759603.911 67.57
   LOCATION L0000013     VOLUME   403286.871 3759599.681 67.53
   LOCATION L0000014     VOLUME   403279.393 3759595.452 67.48
   LOCATION L0000015     VOLUME   403271.916 3759591.222 67.43
   LOCATION L0000016     VOLUME   403264.438 3759586.993 67.38
   LOCATION L0000017     VOLUME   403256.961 3759582.763 67.27
   LOCATION L0000018     VOLUME   403249.483 3759578.534 67.16
   LOCATION L0000019     VOLUME   403242.006 3759574.304 67.06
   LOCATION L0000020     VOLUME   403234.528 3759570.075 66.94
   LOCATION L0000021     VOLUME   403227.051 3759565.846 66.85
   LOCATION L0000022     VOLUME   403219.573 3759561.616 66.80
   LOCATION L0000023     VOLUME   403212.096 3759557.387 66.75
   LOCATION L0000024     VOLUME   403204.618 3759553.157 66.59
   LOCATION L0000025     VOLUME   403197.140 3759548.928 66.29
   LOCATION L0000026     VOLUME   403189.663 3759544.698 66.05
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Offsite from Project dwy s/b along Whitter Frontage Rd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.82E-06
** Elevated
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** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 4
** 403383.146, 3759663.541, 69.95, 3.50, 4.00
** 403507.316, 3759446.613, 68.09, 3.50, 4.00
** 403511.242, 3759446.613, 68.15, 3.50, 4.00
** 403520.076, 3759451.030, 68.52, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000027     VOLUME   403385.280 3759659.813 70.03
   LOCATION L0000028     VOLUME   403389.548 3759652.357 69.98
   LOCATION L0000029     VOLUME   403393.816 3759644.901 70.08
   LOCATION L0000030     VOLUME   403398.083 3759637.446 70.40
   LOCATION L0000031     VOLUME   403402.351 3759629.990 70.43
   LOCATION L0000032     VOLUME   403406.619 3759622.534 70.34
   LOCATION L0000033     VOLUME   403410.886 3759615.078 70.21
   LOCATION L0000034     VOLUME   403415.154 3759607.622 70.06
   LOCATION L0000035     VOLUME   403419.422 3759600.167 69.93
   LOCATION L0000036     VOLUME   403423.689 3759592.711 69.84
   LOCATION L0000037     VOLUME   403427.957 3759585.255 69.78
   LOCATION L0000038     VOLUME   403432.225 3759577.799 69.72
   LOCATION L0000039     VOLUME   403436.492 3759570.343 69.64
   LOCATION L0000040     VOLUME   403440.760 3759562.888 69.55
   LOCATION L0000041     VOLUME   403445.028 3759555.432 69.44
   LOCATION L0000042     VOLUME   403449.295 3759547.976 69.28
   LOCATION L0000043     VOLUME   403453.563 3759540.520 69.16
   LOCATION L0000044     VOLUME   403457.831 3759533.065 69.03
   LOCATION L0000045     VOLUME   403462.098 3759525.609 68.88
   LOCATION L0000046     VOLUME   403466.366 3759518.153 68.78
   LOCATION L0000047     VOLUME   403470.634 3759510.697 68.77
   LOCATION L0000048     VOLUME   403474.901 3759503.241 68.75
   LOCATION L0000049     VOLUME   403479.169 3759495.786 68.72
   LOCATION L0000050     VOLUME   403483.437 3759488.330 68.63
   LOCATION L0000051     VOLUME   403487.705 3759480.874 68.52
   LOCATION L0000052     VOLUME   403491.972 3759473.418 68.41
   LOCATION L0000053     VOLUME   403496.240 3759465.962 68.30
   LOCATION L0000054     VOLUME   403500.508 3759458.507 68.20
   LOCATION L0000055     VOLUME   403504.775 3759451.051 68.09
   LOCATION L0000056     VOLUME   403510.793 3759446.613 68.07
   LOCATION L0000057     VOLUME   403518.524 3759450.254 68.28
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC South on Whittier Blvd to Washington Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 6.63E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
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** Nodes = 14
** 403526.824, 3759455.741, 68.65, 3.50, 4.00
** 403561.451, 3759395.666, 67.72, 3.50, 4.00
** 403590.654, 3759346.021, 66.66, 3.50, 4.00
** 403619.440, 3759297.627, 66.39, 3.50, 4.00
** 403665.747, 3759216.276, 64.97, 3.50, 4.00
** 403687.024, 3759180.815, 65.01, 3.50, 4.00
** 403697.453, 3759163.710, 64.84, 3.50, 4.00
** 403700.374, 3759155.367, 64.87, 3.50, 4.00
** 403700.791, 3759147.023, 64.93, 3.50, 4.00
** 403696.619, 3759138.679, 64.56, 3.50, 4.00
** 403687.441, 3759131.587, 64.03, 3.50, 4.00
** 403661.575, 3759130.753, 63.12, 3.50, 4.00
** 403635.293, 3759128.250, 62.14, 3.50, 4.00
** 403132.336, 3759031.102, 52.34, 3.50, 4.00
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   LOCATION L0000058     VOLUME   403528.969 3759452.019 68.52
   LOCATION L0000059     VOLUME   403533.259 3759444.576 68.43
   LOCATION L0000060     VOLUME   403537.549 3759437.134 68.33
   LOCATION L0000061     VOLUME   403541.839 3759429.691 68.23
   LOCATION L0000062     VOLUME   403546.129 3759422.248 68.12
   LOCATION L0000063     VOLUME   403550.419 3759414.805 68.02
   LOCATION L0000064     VOLUME   403554.709 3759407.362 67.93
   LOCATION L0000065     VOLUME   403558.999 3759399.919 67.88
   LOCATION L0000066     VOLUME   403563.318 3759392.492 67.86
   LOCATION L0000067     VOLUME   403567.673 3759385.088 67.79
   LOCATION L0000068     VOLUME   403572.029 3759377.683 67.69
   LOCATION L0000069     VOLUME   403576.385 3759370.278 67.54
   LOCATION L0000070     VOLUME   403580.740 3759362.873 67.43
   LOCATION L0000071     VOLUME   403585.096 3759355.469 67.29
   LOCATION L0000072     VOLUME   403589.452 3759348.064 67.11
   LOCATION L0000073     VOLUME   403593.834 3759340.675 66.91
   LOCATION L0000074     VOLUME   403598.226 3759333.291 66.71
   LOCATION L0000075     VOLUME   403602.617 3759325.908 66.55
   LOCATION L0000076     VOLUME   403607.009 3759318.525 66.41
   LOCATION L0000077     VOLUME   403611.401 3759311.141 66.32
   LOCATION L0000078     VOLUME   403615.793 3759303.758 66.26
   LOCATION L0000079     VOLUME   403620.161 3759296.361 66.20
   LOCATION L0000080     VOLUME   403624.410 3759288.895 66.08
   LOCATION L0000081     VOLUME   403628.660 3759281.429 65.92
   LOCATION L0000082     VOLUME   403632.910 3759273.963 65.87
   LOCATION L0000083     VOLUME   403637.160 3759266.497 65.80
   LOCATION L0000084     VOLUME   403641.410 3759259.031 65.70
   LOCATION L0000085     VOLUME   403645.660 3759251.565 65.55
   LOCATION L0000086     VOLUME   403649.909 3759244.099 65.38
   LOCATION L0000087     VOLUME   403654.159 3759236.633 65.20
   LOCATION L0000088     VOLUME   403658.409 3759229.167 65.08
   LOCATION L0000089     VOLUME   403662.659 3759221.701 65.03
   LOCATION L0000090     VOLUME   403666.955 3759214.262 65.06
   LOCATION L0000091     VOLUME   403671.375 3759206.896 65.18
   LOCATION L0000092     VOLUME   403675.795 3759199.529 65.30
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LOCATION L0000093     VOLUME   403680.215 3759192.163 65.28
LOCATION L0000094     VOLUME   403684.635 3759184.796 65.20
LOCATION L0000095     VOLUME   403689.079 3759177.444 65.11
LOCATION L0000096     VOLUME   403693.552 3759170.109 65.01
LOCATION L0000097     VOLUME   403697.816 3759162.676 64.98
LOCATION L0000098     VOLUME   403700.416 3759154.521 64.94
LOCATION L0000099     VOLUME   403700.306 3759146.054 64.83
LOCATION L0000100     VOLUME   403696.345 3759138.468 64.60
LOCATION L0000101     VOLUME   403689.548 3759133.215 64.32
LOCATION L0000102     VOLUME   403681.516 3759131.396 64.05
LOCATION L0000103     VOLUME   403672.929 3759131.119 63.79
LOCATION L0000104     VOLUME   403664.343 3759130.842 63.54
LOCATION L0000105     VOLUME   403655.780 3759130.201 63.27
LOCATION L0000106     VOLUME   403647.228 3759129.386 62.98
LOCATION L0000107     VOLUME   403638.676 3759128.572 62.66
LOCATION L0000108     VOLUME   403630.194 3759127.265 62.32
LOCATION L0000109     VOLUME   403621.759 3759125.636 61.99
LOCATION L0000110     VOLUME   403613.325 3759124.006 61.67
LOCATION L0000111     VOLUME   403604.890 3759122.377 61.37
LOCATION L0000112     VOLUME   403596.455 3759120.748 61.06
LOCATION L0000113     VOLUME   403588.020 3759119.119 60.80
LOCATION L0000114     VOLUME   403579.585 3759117.489 60.59
LOCATION L0000115     VOLUME   403571.150 3759115.860 60.42
LOCATION L0000116     VOLUME   403562.715 3759114.231 60.30
LOCATION L0000117     VOLUME   403554.280 3759112.602 60.14
LOCATION L0000118     VOLUME   403545.845 3759110.973 59.97
LOCATION L0000119     VOLUME   403537.411 3759109.343 59.86
LOCATION L0000120     VOLUME   403528.976 3759107.714 59.74
LOCATION L0000121     VOLUME   403520.541 3759106.085 59.62
LOCATION L0000122     VOLUME   403512.106 3759104.456 59.52
LOCATION L0000123     VOLUME   403503.671 3759102.826 59.41
LOCATION L0000124     VOLUME   403495.236 3759101.197 59.29
LOCATION L0000125     VOLUME   403486.801 3759099.568 59.11
LOCATION L0000126     VOLUME   403478.366 3759097.939 58.94
LOCATION L0000127     VOLUME   403469.931 3759096.310 58.75
LOCATION L0000128     VOLUME   403461.496 3759094.680 58.50
LOCATION L0000129     VOLUME   403453.062 3759093.051 58.26
LOCATION L0000130     VOLUME   403444.627 3759091.422 58.02
LOCATION L0000131     VOLUME   403436.192 3759089.793 57.76
LOCATION L0000132     VOLUME   403427.757 3759088.163 57.55
LOCATION L0000133     VOLUME   403419.322 3759086.534 57.37
LOCATION L0000134     VOLUME   403410.887 3759084.905 57.32
LOCATION L0000135     VOLUME   403402.452 3759083.276 57.24
LOCATION L0000136     VOLUME   403394.017 3759081.647 57.13
LOCATION L0000137     VOLUME   403385.582 3759080.017 57.09
LOCATION L0000138     VOLUME   403377.147 3759078.388 57.03
LOCATION L0000139     VOLUME   403368.713 3759076.759 56.95
LOCATION L0000140     VOLUME   403360.278 3759075.130 56.89
LOCATION L0000141     VOLUME   403351.843 3759073.500 56.84
LOCATION L0000142     VOLUME   403343.408 3759071.871 56.78
LOCATION L0000143     VOLUME   403334.973 3759070.242 56.72
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   LOCATION L0000144     VOLUME   403326.538 3759068.613 56.65
   LOCATION L0000145     VOLUME   403318.103 3759066.984 56.57
   LOCATION L0000146     VOLUME   403309.668 3759065.354 56.37
   LOCATION L0000147     VOLUME   403301.233 3759063.725 56.17
   LOCATION L0000148     VOLUME   403292.799 3759062.096 55.97
   LOCATION L0000149     VOLUME   403284.364 3759060.467 55.70
   LOCATION L0000150     VOLUME   403275.929 3759058.837 55.41
   LOCATION L0000151     VOLUME   403267.494 3759057.208 55.13
   LOCATION L0000152     VOLUME   403259.059 3759055.579 54.93
   LOCATION L0000153     VOLUME   403250.624 3759053.950 54.75
   LOCATION L0000154     VOLUME   403242.189 3759052.321 54.55
   LOCATION L0000155     VOLUME   403233.754 3759050.691 54.50
   LOCATION L0000156     VOLUME   403225.319 3759049.062 54.47
   LOCATION L0000157     VOLUME   403216.884 3759047.433 54.40
   LOCATION L0000158     VOLUME   403208.450 3759045.804 54.23
   LOCATION L0000159     VOLUME   403200.015 3759044.174 54.01
   LOCATION L0000160     VOLUME   403191.580 3759042.545 53.80
   LOCATION L0000161     VOLUME   403183.145 3759040.916 53.54
   LOCATION L0000162     VOLUME   403174.710 3759039.287 53.26
   LOCATION L0000163     VOLUME   403166.275 3759037.658 53.01
   LOCATION L0000164     VOLUME   403157.840 3759036.028 52.81
   LOCATION L0000165     VOLUME   403149.405 3759034.399 52.62
   LOCATION L0000166     VOLUME   403140.970 3759032.770 52.43
   LOCATION L0000167     VOLUME   403132.535 3759031.141 52.25
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Northbound along Whitter Blvd
** PREFIX
** Length of Side = 10.11
** Configuration = Adjacent
** Emission Rate = 7.59E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 7
** 403541.907, 3759460.234, 69.09, 3.50, 4.70
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   LOCATION L0000172     VOLUME   403533.188 3759499.317 70.12
   LOCATION L0000173     VOLUME   403528.162 3759508.094 70.18
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LOCATION L0000177     VOLUME   403508.056 3759543.204 70.83
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LOCATION L0000181     VOLUME   403487.976 3759578.328 70.99
LOCATION L0000182     VOLUME   403482.977 3759587.121 71.05
LOCATION L0000183     VOLUME   403477.977 3759595.914 71.14
LOCATION L0000184     VOLUME   403472.978 3759604.708 71.24
LOCATION L0000185     VOLUME   403467.979 3759613.501 71.43
LOCATION L0000186     VOLUME   403462.980 3759622.294 71.63
LOCATION L0000187     VOLUME   403457.981 3759631.087 71.77
LOCATION L0000188     VOLUME   403452.982 3759639.880 71.85
LOCATION L0000189     VOLUME   403447.562 3759648.419 71.87
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LOCATION L0000191     VOLUME   403436.705 3759665.489 72.05
LOCATION L0000192     VOLUME   403431.277 3759674.024 72.20
LOCATION L0000193     VOLUME   403425.849 3759682.559 72.31
LOCATION L0000194     VOLUME   403420.421 3759691.094 72.30
LOCATION L0000195     VOLUME   403414.993 3759699.629 72.34
LOCATION L0000196     VOLUME   403409.565 3759708.164 72.42
LOCATION L0000197     VOLUME   403404.137 3759716.699 72.47
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LOCATION L0000202     VOLUME   403378.133 3759760.071 72.29
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LOCATION L0000205     VOLUME   403362.691 3759786.192 72.06
LOCATION L0000206     VOLUME   403357.543 3759794.899 72.03
LOCATION L0000207     VOLUME   403352.396 3759803.606 72.02
LOCATION L0000208     VOLUME   403347.248 3759812.313 71.99
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LOCATION L0000212     VOLUME   403326.658 3759847.141 71.78
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LOCATION L0000215     VOLUME   403311.216 3759873.262 71.53
LOCATION L0000216     VOLUME   403306.069 3759881.969 71.43
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LOCATION L0000218     VOLUME   403295.774 3759899.384 71.35
LOCATION L0000219     VOLUME   403290.626 3759908.091 71.32
LOCATION L0000220     VOLUME   403285.479 3759916.798 71.27
LOCATION L0000221     VOLUME   403280.331 3759925.505 71.20
LOCATION L0000222     VOLUME   403275.184 3759934.212 71.19
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LOCATION L0000224     VOLUME   403264.889 3759951.626 71.20
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   LOCATION L0000232     VOLUME   403223.709 3760021.282 70.80
   LOCATION L0000233     VOLUME   403218.561 3760029.989 70.75
   LOCATION L0000234     VOLUME   403213.414 3760038.696 70.67
   LOCATION L0000235     VOLUME   403208.267 3760047.403 70.56
   LOCATION L0000236     VOLUME   403203.119 3760056.110 70.47
   LOCATION L0000237     VOLUME   403197.972 3760064.817 70.46
   LOCATION L0000238     VOLUME   403192.824 3760073.525 70.49
   LOCATION L0000239     VOLUME   403187.677 3760082.232 70.47
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   LOCATION L0000242     VOLUME   403172.234 3760108.353 70.40
   LOCATION L0000243     VOLUME   403167.087 3760117.060 70.47
   LOCATION L0000244     VOLUME   403161.939 3760125.767 70.47
   LOCATION L0000245     VOLUME   403156.792 3760134.474 70.40
   LOCATION L0000246     VOLUME   403151.644 3760143.181 70.29
   LOCATION L0000247     VOLUME   403146.497 3760151.888 70.32
   LOCATION L0000248     VOLUME   403141.349 3760160.595 70.34
   LOCATION L0000249     VOLUME   403136.202 3760169.302 70.30
   LOCATION L0000250     VOLUME   403131.054 3760178.009 70.19
   LOCATION L0000251     VOLUME   403125.907 3760186.716 70.07
   LOCATION L0000252     VOLUME   403120.759 3760195.423 69.98
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   LOCATION L0000255     VOLUME   403105.317 3760221.544 70.15
   LOCATION L0000256     VOLUME   403100.170 3760230.251 70.18
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   LOCATION L0000258     VOLUME   403089.875 3760247.665 70.34
   LOCATION L0000259     VOLUME   403084.727 3760256.373 70.40
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   LOCATION L0000262     VOLUME   403069.285 3760282.494 70.74
   LOCATION L0000263     VOLUME   403064.137 3760291.201 70.91
   LOCATION L0000264     VOLUME   403058.990 3760299.908 71.04
   LOCATION L0000265     VOLUME   403053.842 3760308.615 71.16
   LOCATION L0000266     VOLUME   403048.695 3760317.322 71.30
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   LOCATION L0000269     VOLUME   403033.252 3760343.443 71.12
   LOCATION L0000270     VOLUME   403028.105 3760352.150 70.98
   LOCATION L0000271     VOLUME   403022.957 3760360.857 70.90
   LOCATION L0000272     VOLUME   403017.810 3760369.564 71.03
   LOCATION L0000273     VOLUME   403012.662 3760378.271 71.07
** End of LINE VOLUME Source ID = SLINE4
** Source Parameters **
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   SRCPARAM STCK2         7.16E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK3         7.16E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK4         7.16E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK5         7.16E-06     3.500   366.000  51.90000     0.100
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   SRCPARAM L0000002     0.0000001715      3.50      4.00      4.96
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   SRCPARAM L0000004     0.0000001715      3.50      4.00      4.96
   SRCPARAM L0000005     0.0000001715      3.50      4.00      4.96
   SRCPARAM L0000006     0.0000001715      3.50      4.00      4.96
   SRCPARAM L0000007     0.0000001715      3.50      4.00      4.96
   SRCPARAM L0000008     0.0000001715      3.50      4.00      4.96
   SRCPARAM L0000009     0.0000001715      3.50      4.00      4.96
   SRCPARAM L0000010     0.0000001715      3.50      4.00      4.96
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   SRCPARAM L0000012     0.0000001715      3.50      4.00      4.96
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   SRCPARAM L0000015     0.0000001715      3.50      4.00      4.96
   SRCPARAM L0000016     0.0000001715      3.50      4.00      4.96
   SRCPARAM L0000017     0.0000001715      3.50      4.00      4.96
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   SRCPARAM L0000019     0.0000001715      3.50      4.00      4.96
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   SRCPARAM L0000023     0.0000001715      3.50      4.00      4.96
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   SRCPARAM L0000026     0.0000001715      3.50      4.00      4.96
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   SRCPARAM L0000028     0.00000009097      3.50      4.00      1.63
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   SRCPARAM L0000044     0.00000009097      3.50      4.00      1.63
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   SRCPARAM L0000057     0.00000009097      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE4
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   SRCPARAM L0000169     0.0000000716      3.50      4.70      1.63
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   SRCPARAM L0000180     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000181     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000182     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000183     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000184     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000185     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000186     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000187     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000188     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000189     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000190     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000191     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000192     0.0000000716      3.50      4.70      1.63
```

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SRCPARAM L0000193     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000194     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000195     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000196     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000197     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000198     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000199     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000200     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000201     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000202     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000203     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000204     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000205     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000206     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000207     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000208     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000209     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000210     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000211     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000212     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000213     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000214     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000215     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000216     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000217     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000218     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000219     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000220     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000221     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000222     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000223     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000224     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000225     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000226     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000227     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000228     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000229     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000230     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000231     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000232     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000233     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000234     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000235     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000236     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000237     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000238     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000239     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000240     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000241     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000242     0.0000000716      3.50      4.70      1.63
SRCPARAM L0000243     0.0000000716      3.50      4.70      1.63
```

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   SRCPARAM L0000245     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000246     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000247     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000248     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000249     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000250     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000251     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000252     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000253     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000254     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000255     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000256     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000257     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000258     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000259     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000260     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000261     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000262     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000263     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000264     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000265     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000266     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000267     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000268     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000269     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000270     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000271     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000272     0.0000000716      3.50      4.70      1.63
   SRCPARAM L0000273     0.0000000716      3.50      4.70      1.63
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67

   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67

   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
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BUILDHGT STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDWID STCK1	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK1	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK1	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK1	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK1	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK1	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK2	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK2	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK2	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK2	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK2	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK2	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK3	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK3	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK3	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK3	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK3	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK3	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK4	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK4	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK4	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK4	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK4	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK4	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK5	225.22	215.35	200.78	181.96	0.00	0.00
BUILDWID STCK5	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK5	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK5	225.22	215.35	200.78	181.96	0.00	0.00
BUILDWID STCK5	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK5	258.53	250.32	238.49	242.14	238.43	228.24

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BUILDLEN STCK1          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK1          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK1          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK1          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK1          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK1          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK2          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK2          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK2          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK2          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK2          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK2          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK3          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK3          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK3          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK3          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK3          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK3          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK4          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK4          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK4          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK4          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK4          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK4          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK5          236.22   251.37   258.88   258.53     0.00     0.00
BUILDLEN STCK5          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK5          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK5          236.22   251.37   258.88   258.53     0.00     0.00
BUILDLEN STCK5          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK5          181.96   157.62   128.68   150.61   185.06   213.89

XBADJ    STCK1          -17.27   -23.31   -28.65   -33.12   -36.58   -39.74
XBADJ    STCK1          -47.85   -54.51   -60.29   -78.33   -94.00  -106.80
XBADJ    STCK1         -116.36  -122.39  -124.70  -153.82  -181.26  -203.19
XBADJ    STCK1         -218.95  -228.05  -230.23  -225.41  -213.74  -198.76
XBADJ    STCK1         -194.29  -183.91  -167.95  -146.88  -121.36   -93.98
XBADJ    STCK1          -65.60   -35.23    -3.98     3.21    -3.81   -10.70

XBADJ    STCK2          -60.58   -75.64   -88.41   -98.49  -105.58  -110.27
XBADJ    STCK2         -117.77  -121.70  -122.70  -134.07  -141.37  -144.37
XBADJ    STCK2         -142.98  -137.25  -127.35  -144.18  -159.63  -170.22
XBADJ    STCK2         -175.64  -175.73  -170.47  -160.03  -144.74  -128.23
XBADJ    STCK2         -124.36  -116.73  -105.54   -91.15   -73.99   -56.41
XBADJ    STCK2          -38.98   -20.37    -1.33    -6.43   -25.44   -43.67

XBADJ    STCK3          -30.33   -39.46   -47.40   -53.90   -58.75   -62.64
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XBADJ	STCK3	-70.78	-76.78	-81.21	-97.27	-110.38	-120.13
XBADJ	STCK3	-126.24	-128.51	-126.87	-151.98	-175.47	-193.62
XBADJ	STCK3	-205.89	-211.90	-211.48	-204.63	-191.56	-175.86
XBADJ	STCK3	-171.36	-161.65	-147.03	-127.94	-104.97	-80.64
XBADJ	STCK3	-55.73	-29.11	-1.81	1.37	-9.60	-20.27
XBADJ	STCK4	-83.50	-102.70	-118.79	-131.26	-139.74	-144.79
XBADJ	STCK4	-151.61	-153.82	-152.12	-159.90	-162.82	-160.80
XBADJ	STCK4	-153.89	-142.30	-126.39	-137.25	-146.92	-152.13
XBADJ	STCK4	-152.72	-148.66	-140.09	-127.27	-110.57	-93.70
XBADJ	STCK4	-90.53	-84.61	-76.12	-65.32	-52.53	-39.98
XBADJ	STCK4	-28.07	-15.32	-2.29	-13.37	-38.14	-61.76
XBADJ	STCK5	-95.76	-121.53	-143.60	-161.32	0.00	0.00
XBADJ	STCK5	-191.41	-194.55	-192.54	-198.78	-198.99	-193.14
XBADJ	STCK5	-181.43	-164.21	-142.00	-146.07	-148.70	-146.81
XBADJ	STCK5	-140.46	-129.84	-115.28	-97.21	0.00	0.00
XBADJ	STCK5	-50.73	-43.88	-35.70	-26.43	-16.36	-7.63
XBADJ	STCK5	-0.53	6.59	13.32	-4.54	-36.36	-67.08
YBADJ	STCK1	-34.28	-13.68	6.41	25.38	43.58	60.36
YBADJ	STCK1	78.51	88.73	96.25	100.84	102.37	100.79
YBADJ	STCK1	96.15	88.58	79.51	73.22	64.70	53.83
YBADJ	STCK1	34.28	13.68	-6.41	-25.38	-43.58	-60.36
YBADJ	STCK1	-78.51	-88.73	-96.25	-100.84	-102.37	-100.79
YBADJ	STCK1	-96.15	-88.58	-79.51	-73.22	-64.70	-53.83
YBADJ	STCK2	21.46	33.69	43.98	52.00	58.44	63.01
YBADJ	STCK2	68.88	67.10	63.27	57.53	50.04	41.03
YBADJ	STCK2	30.77	19.58	8.98	3.30	-2.49	-8.58
YBADJ	STCK2	-21.46	-33.69	-43.98	-52.00	-58.44	-63.01
YBADJ	STCK2	-68.88	-67.10	-63.27	-57.53	-50.04	-41.03
YBADJ	STCK2	-30.77	-19.58	-8.98	-3.30	2.49	8.58
YBADJ	STCK3	-15.34	2.71	19.75	35.26	49.70	62.53
YBADJ	STCK3	76.67	82.93	86.68	87.78	86.22	82.04
YBADJ	STCK3	75.37	66.40	56.61	50.29	42.44	32.91
YBADJ	STCK3	15.34	-2.71	-19.75	-35.26	-49.70	-62.53
YBADJ	STCK3	-76.67	-82.93	-86.68	-87.78	-86.22	-82.04
YBADJ	STCK3	-75.37	-66.40	-56.61	-50.29	-42.44	-32.91
YBADJ	STCK4	47.29	55.15	60.41	62.91	63.49	62.05
YBADJ	STCK4	61.94	54.39	45.18	34.61	22.98	10.65
YBADJ	STCK4	-2.00	-14.59	-25.55	-30.54	-34.60	-38.00
YBADJ	STCK4	-47.29	-55.15	-60.41	-62.91	-63.49	-62.05
YBADJ	STCK4	-61.94	-54.39	-45.18	-34.61	-22.98	-10.65
YBADJ	STCK4	2.00	14.59	25.55	30.54	34.60	38.00
YBADJ	STCK5	86.17	91.31	92.76	90.45	0.00	0.00
YBADJ	STCK5	70.77	56.17	39.86	22.35	4.16	-14.16
YBADJ	STCK5	-32.05	-48.97	-63.21	-70.34	-75.33	-78.42

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   YBADJ    STCK5          -86.17   -91.31   -92.76   -90.45     0.00     0.00
   YBADJ    STCK5          -70.77   -56.17   -39.86   -22.35    -4.16    14.16
   YBADJ    STCK5           32.05    48.97    63.21    70.34    75.33    78.42

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "19391 Whittier Blvd BP OY 2023.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC"
   PROFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL"
   SURFDATA 3166 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 58.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "19391 Whittier Blvd BP OY 2023.AD\PE00GALL.PLT" 31
   SUMMFILE "19391 Whittier Blvd BP OY 2023.sum"
OU FINISHED


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

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

 A Total of            0 Fatal Error Message(s)
 A Total of            7 Warning Message(s)
 A Total of            0 Informational Message(s)
```

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


   ********   WARNING MESSAGES   ********
SO W320     408        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     409        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     410        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     411        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     412        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W186     896       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
ME W187     896       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                  ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations OY 2023                              ***        16:58:30
                                                                                                        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   278 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
       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:    278 Source(s);       1 Source Group(s); and     450 Receptor(s)

               with:      5 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    273 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) =    58.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                           ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.0 MB of RAM.

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

**Detailed Error/Message File:   19391 Whittier Blvd BP OY 2023.err
**File for Summary of Results:   19391 Whittier Blvd BP OY 2023.sum

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations OY 2023                                      ***        16:58:30
                                                                                                               PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** POINT SOURCE DATA ***
```

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.71600E-05	403193.6	3759565.7	66.8	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.71600E-05	403256.0	3759598.7	67.4	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.71600E-05	403214.6	3759575.3	66.9	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.71600E-05	403285.5	3759616.8	67.6	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.71600E-05	403325.9	3759622.1	67.8	3.50	366.00	51.90	0.10	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000001	0	0.17150E-06	403372.2	3759656.1	68.9	3.50	4.00	4.96	YES	
L0000002	0	0.17150E-06	403365.9	3759650.2	68.3	3.50	4.00	4.96	YES	
L0000003	0	0.17150E-06	403360.2	3759643.8	68.1	3.50	4.00	4.96	YES	
L0000004	0	0.17150E-06	403354.0	3759637.9	68.2	3.50	4.00	4.96	YES	
L0000005	0	0.17150E-06	403346.9	3759633.2	68.1	3.50	4.00	4.96	YES	
L0000006	0	0.17150E-06	403339.3	3759629.0	68.0	3.50	4.00	4.96	YES	
L0000007	0	0.17150E-06	403331.8	3759624.9	67.9	3.50	4.00	4.96	YES	
L0000008	0	0.17150E-06	403324.3	3759620.8	67.8	3.50	4.00	4.96	YES	
L0000009	0	0.17150E-06	403316.8	3759616.6	67.7	3.50	4.00	4.96	YES	
L0000010	0	0.17150E-06	403309.3	3759612.4	67.7	3.50	4.00	4.96	YES	
L0000011	0	0.17150E-06	403301.8	3759608.1	67.6	3.50	4.00	4.96	YES	
L0000012	0	0.17150E-06	403294.3	3759603.9	67.6	3.50	4.00	4.96	YES	
L0000013	0	0.17150E-06	403286.9	3759599.7	67.5	3.50	4.00	4.96	YES	
L0000014	0	0.17150E-06	403279.4	3759595.5	67.5	3.50	4.00	4.96	YES	
L0000015	0	0.17150E-06	403271.9	3759591.2	67.4	3.50	4.00	4.96	YES	
L0000016	0	0.17150E-06	403264.4	3759587.0	67.4	3.50	4.00	4.96	YES	
L0000017	0	0.17150E-06	403257.0	3759582.8	67.3	3.50	4.00	4.96	YES	
L0000018	0	0.17150E-06	403249.5	3759578.5	67.2	3.50	4.00	4.96	YES	
L0000019	0	0.17150E-06	403242.0	3759574.3	67.1	3.50	4.00	4.96	YES	
L0000020	0	0.17150E-06	403234.5	3759570.1	66.9	3.50	4.00	4.96	YES	
L0000021	0	0.17150E-06	403227.1	3759565.8	66.8	3.50	4.00	4.96	YES	
L0000022	0	0.17150E-06	403219.6	3759561.6	66.8	3.50	4.00	4.96	YES	
L0000023	0	0.17150E-06	403212.1	3759557.4	66.8	3.50	4.00	4.96	YES	
L0000024	0	0.17150E-06	403204.6	3759553.2	66.6	3.50	4.00	4.96	YES	
L0000025	0	0.17150E-06	403197.1	3759548.9	66.3	3.50	4.00	4.96	YES	
L0000026	0	0.17150E-06	403189.7	3759544.7	66.0	3.50	4.00	4.96	YES	
L0000027	0	0.90970E-07	403385.3	3759659.8	70.0	3.50	4.00	1.63	YES	

L0000028	0	0.90970E-07	403389.5	3759652.4	70.0	3.50	4.00	1.63	YES
L0000029	0	0.90970E-07	403393.8	3759644.9	70.1	3.50	4.00	1.63	YES
L0000030	0	0.90970E-07	403398.1	3759637.4	70.4	3.50	4.00	1.63	YES
L0000031	0	0.90970E-07	403402.4	3759630.0	70.4	3.50	4.00	1.63	YES
L0000032	0	0.90970E-07	403406.6	3759622.5	70.3	3.50	4.00	1.63	YES
L0000033	0	0.90970E-07	403410.9	3759615.1	70.2	3.50	4.00	1.63	YES
L0000034	0	0.90970E-07	403415.2	3759607.6	70.1	3.50	4.00	1.63	YES
L0000035	0	0.90970E-07	403419.4	3759600.2	69.9	3.50	4.00	1.63	YES
L0000036	0	0.90970E-07	403423.7	3759592.7	69.8	3.50	4.00	1.63	YES
L0000037	0	0.90970E-07	403428.0	3759585.3	69.8	3.50	4.00	1.63	YES
L0000038	0	0.90970E-07	403432.2	3759577.8	69.7	3.50	4.00	1.63	YES
L0000039	0	0.90970E-07	403436.5	3759570.3	69.6	3.50	4.00	1.63	YES
L0000040	0	0.90970E-07	403440.8	3759562.9	69.5	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
L0000041	0	0.90970E-07	403445.0	3759555.4	69.4	3.50	4.00	1.63	YES	
L0000042	0	0.90970E-07	403449.3	3759548.0	69.3	3.50	4.00	1.63	YES	
L0000043	0	0.90970E-07	403453.6	3759540.5	69.2	3.50	4.00	1.63	YES	
L0000044	0	0.90970E-07	403457.8	3759533.1	69.0	3.50	4.00	1.63	YES	
L0000045	0	0.90970E-07	403462.1	3759525.6	68.9	3.50	4.00	1.63	YES	
L0000046	0	0.90970E-07	403466.4	3759518.2	68.8	3.50	4.00	1.63	YES	
L0000047	0	0.90970E-07	403470.6	3759510.7	68.8	3.50	4.00	1.63	YES	
L0000048	0	0.90970E-07	403474.9	3759503.2	68.8	3.50	4.00	1.63	YES	
L0000049	0	0.90970E-07	403479.2	3759495.8	68.7	3.50	4.00	1.63	YES	
L0000050	0	0.90970E-07	403483.4	3759488.3	68.6	3.50	4.00	1.63	YES	
L0000051	0	0.90970E-07	403487.7	3759480.9	68.5	3.50	4.00	1.63	YES	
L0000052	0	0.90970E-07	403492.0	3759473.4	68.4	3.50	4.00	1.63	YES	
L0000053	0	0.90970E-07	403496.2	3759466.0	68.3	3.50	4.00	1.63	YES	
L0000054	0	0.90970E-07	403500.5	3759458.5	68.2	3.50	4.00	1.63	YES	
L0000055	0	0.90970E-07	403504.8	3759451.1	68.1	3.50	4.00	1.63	YES	
L0000056	0	0.90970E-07	403510.8	3759446.6	68.1	3.50	4.00	1.63	YES	
L0000057	0	0.90970E-07	403518.5	3759450.3	68.3	3.50	4.00	1.63	YES	
L0000058	0	0.60270E-07	403529.0	3759452.0	68.5	3.50	4.00	1.63	YES	
L0000059	0	0.60270E-07	403533.3	3759444.6	68.4	3.50	4.00	1.63	YES	
L0000060	0	0.60270E-07	403537.5	3759437.1	68.3	3.50	4.00	1.63	YES	
L0000061	0	0.60270E-07	403541.8	3759429.7	68.2	3.50	4.00	1.63	YES	
L0000062	0	0.60270E-07	403546.1	3759422.2	68.1	3.50	4.00	1.63	YES	
L0000063	0	0.60270E-07	403550.4	3759414.8	68.0	3.50	4.00	1.63	YES	
L0000064	0	0.60270E-07	403554.7	3759407.4	67.9	3.50	4.00	1.63	YES	

L0000065	0	0.60270E-07	403559.0	3759399.9	67.9	3.50	4.00	1.63	YES
L0000066	0	0.60270E-07	403563.3	3759392.5	67.9	3.50	4.00	1.63	YES
L0000067	0	0.60270E-07	403567.7	3759385.1	67.8	3.50	4.00	1.63	YES
L0000068	0	0.60270E-07	403572.0	3759377.7	67.7	3.50	4.00	1.63	YES
L0000069	0	0.60270E-07	403576.4	3759370.3	67.5	3.50	4.00	1.63	YES
L0000070	0	0.60270E-07	403580.7	3759362.9	67.4	3.50	4.00	1.63	YES
L0000071	0	0.60270E-07	403585.1	3759355.5	67.3	3.50	4.00	1.63	YES
L0000072	0	0.60270E-07	403589.5	3759348.1	67.1	3.50	4.00	1.63	YES
L0000073	0	0.60270E-07	403593.8	3759340.7	66.9	3.50	4.00	1.63	YES
L0000074	0	0.60270E-07	403598.2	3759333.3	66.7	3.50	4.00	1.63	YES
L0000075	0	0.60270E-07	403602.6	3759325.9	66.5	3.50	4.00	1.63	YES
L0000076	0	0.60270E-07	403607.0	3759318.5	66.4	3.50	4.00	1.63	YES
L0000077	0	0.60270E-07	403611.4	3759311.1	66.3	3.50	4.00	1.63	YES
L0000078	0	0.60270E-07	403615.8	3759303.8	66.3	3.50	4.00	1.63	YES
L0000079	0	0.60270E-07	403620.2	3759296.4	66.2	3.50	4.00	1.63	YES
L0000080	0	0.60270E-07	403624.4	3759288.9	66.1	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000081	0	0.60270E-07	403628.7	3759281.4	65.9	3.50	4.00	1.63	YES	
L0000082	0	0.60270E-07	403632.9	3759274.0	65.9	3.50	4.00	1.63	YES	
L0000083	0	0.60270E-07	403637.2	3759266.5	65.8	3.50	4.00	1.63	YES	
L0000084	0	0.60270E-07	403641.4	3759259.0	65.7	3.50	4.00	1.63	YES	
L0000085	0	0.60270E-07	403645.7	3759251.6	65.5	3.50	4.00	1.63	YES	
L0000086	0	0.60270E-07	403649.9	3759244.1	65.4	3.50	4.00	1.63	YES	
L0000087	0	0.60270E-07	403654.2	3759236.6	65.2	3.50	4.00	1.63	YES	
L0000088	0	0.60270E-07	403658.4	3759229.2	65.1	3.50	4.00	1.63	YES	
L0000089	0	0.60270E-07	403662.7	3759221.7	65.0	3.50	4.00	1.63	YES	
L0000090	0	0.60270E-07	403667.0	3759214.3	65.1	3.50	4.00	1.63	YES	
L0000091	0	0.60270E-07	403671.4	3759206.9	65.2	3.50	4.00	1.63	YES	
L0000092	0	0.60270E-07	403675.8	3759199.5	65.3	3.50	4.00	1.63	YES	
L0000093	0	0.60270E-07	403680.2	3759192.2	65.3	3.50	4.00	1.63	YES	
L0000094	0	0.60270E-07	403684.6	3759184.8	65.2	3.50	4.00	1.63	YES	
L0000095	0	0.60270E-07	403689.1	3759177.4	65.1	3.50	4.00	1.63	YES	
L0000096	0	0.60270E-07	403693.6	3759170.1	65.0	3.50	4.00	1.63	YES	
L0000097	0	0.60270E-07	403697.8	3759162.7	65.0	3.50	4.00	1.63	YES	
L0000098	0	0.60270E-07	403700.4	3759154.5	64.9	3.50	4.00	1.63	YES	
L0000099	0	0.60270E-07	403700.3	3759146.1	64.8	3.50	4.00	1.63	YES	
L0000100	0	0.60270E-07	403696.3	3759138.5	64.6	3.50	4.00	1.63	YES	
L0000101	0	0.60270E-07	403689.5	3759133.2	64.3	3.50	4.00	1.63	YES	

L0000102	0	0.60270E-07	403681.5	3759131.4	64.0	3.50	4.00	1.63	YES
L0000103	0	0.60270E-07	403672.9	3759131.1	63.8	3.50	4.00	1.63	YES
L0000104	0	0.60270E-07	403664.3	3759130.8	63.5	3.50	4.00	1.63	YES
L0000105	0	0.60270E-07	403655.8	3759130.2	63.3	3.50	4.00	1.63	YES
L0000106	0	0.60270E-07	403647.2	3759129.4	63.0	3.50	4.00	1.63	YES
L0000107	0	0.60270E-07	403638.7	3759128.6	62.7	3.50	4.00	1.63	YES
L0000108	0	0.60270E-07	403630.2	3759127.3	62.3	3.50	4.00	1.63	YES
L0000109	0	0.60270E-07	403621.8	3759125.6	62.0	3.50	4.00	1.63	YES
L0000110	0	0.60270E-07	403613.3	3759124.0	61.7	3.50	4.00	1.63	YES
L0000111	0	0.60270E-07	403604.9	3759122.4	61.4	3.50	4.00	1.63	YES
L0000112	0	0.60270E-07	403596.5	3759120.7	61.1	3.50	4.00	1.63	YES
L0000113	0	0.60270E-07	403588.0	3759119.1	60.8	3.50	4.00	1.63	YES
L0000114	0	0.60270E-07	403579.6	3759117.5	60.6	3.50	4.00	1.63	YES
L0000115	0	0.60270E-07	403571.1	3759115.9	60.4	3.50	4.00	1.63	YES
L0000116	0	0.60270E-07	403562.7	3759114.2	60.3	3.50	4.00	1.63	YES
L0000117	0	0.60270E-07	403554.3	3759112.6	60.1	3.50	4.00	1.63	YES
L0000118	0	0.60270E-07	403545.8	3759111.0	60.0	3.50	4.00	1.63	YES
L0000119	0	0.60270E-07	403537.4	3759109.3	59.9	3.50	4.00	1.63	YES
L0000120	0	0.60270E-07	403529.0	3759107.7	59.7	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
L0000121	0	0.60270E-07	403520.5	3759106.1	59.6	3.50	4.00	1.63	YES	
L0000122	0	0.60270E-07	403512.1	3759104.5	59.5	3.50	4.00	1.63	YES	
L0000123	0	0.60270E-07	403503.7	3759102.8	59.4	3.50	4.00	1.63	YES	
L0000124	0	0.60270E-07	403495.2	3759101.2	59.3	3.50	4.00	1.63	YES	
L0000125	0	0.60270E-07	403486.8	3759099.6	59.1	3.50	4.00	1.63	YES	
L0000126	0	0.60270E-07	403478.4	3759097.9	58.9	3.50	4.00	1.63	YES	
L0000127	0	0.60270E-07	403469.9	3759096.3	58.8	3.50	4.00	1.63	YES	
L0000128	0	0.60270E-07	403461.5	3759094.7	58.5	3.50	4.00	1.63	YES	
L0000129	0	0.60270E-07	403453.1	3759093.1	58.3	3.50	4.00	1.63	YES	
L0000130	0	0.60270E-07	403444.6	3759091.4	58.0	3.50	4.00	1.63	YES	
L0000131	0	0.60270E-07	403436.2	3759089.8	57.8	3.50	4.00	1.63	YES	
L0000132	0	0.60270E-07	403427.8	3759088.2	57.5	3.50	4.00	1.63	YES	
L0000133	0	0.60270E-07	403419.3	3759086.5	57.4	3.50	4.00	1.63	YES	
L0000134	0	0.60270E-07	403410.9	3759084.9	57.3	3.50	4.00	1.63	YES	
L0000135	0	0.60270E-07	403402.5	3759083.3	57.2	3.50	4.00	1.63	YES	
L0000136	0	0.60270E-07	403394.0	3759081.6	57.1	3.50	4.00	1.63	YES	
L0000137	0	0.60270E-07	403385.6	3759080.0	57.1	3.50	4.00	1.63	YES	
L0000138	0	0.60270E-07	403377.1	3759078.4	57.0	3.50	4.00	1.63	YES	

L0000139	0	0.60270E-07	403368.7	3759076.8	56.9	3.50	4.00	1.63	YES
L0000140	0	0.60270E-07	403360.3	3759075.1	56.9	3.50	4.00	1.63	YES
L0000141	0	0.60270E-07	403351.8	3759073.5	56.8	3.50	4.00	1.63	YES
L0000142	0	0.60270E-07	403343.4	3759071.9	56.8	3.50	4.00	1.63	YES
L0000143	0	0.60270E-07	403335.0	3759070.2	56.7	3.50	4.00	1.63	YES
L0000144	0	0.60270E-07	403326.5	3759068.6	56.6	3.50	4.00	1.63	YES
L0000145	0	0.60270E-07	403318.1	3759067.0	56.6	3.50	4.00	1.63	YES
L0000146	0	0.60270E-07	403309.7	3759065.4	56.4	3.50	4.00	1.63	YES
L0000147	0	0.60270E-07	403301.2	3759063.7	56.2	3.50	4.00	1.63	YES
L0000148	0	0.60270E-07	403292.8	3759062.1	56.0	3.50	4.00	1.63	YES
L0000149	0	0.60270E-07	403284.4	3759060.5	55.7	3.50	4.00	1.63	YES
L0000150	0	0.60270E-07	403275.9	3759058.8	55.4	3.50	4.00	1.63	YES
L0000151	0	0.60270E-07	403267.5	3759057.2	55.1	3.50	4.00	1.63	YES
L0000152	0	0.60270E-07	403259.1	3759055.6	54.9	3.50	4.00	1.63	YES
L0000153	0	0.60270E-07	403250.6	3759053.9	54.8	3.50	4.00	1.63	YES
L0000154	0	0.60270E-07	403242.2	3759052.3	54.5	3.50	4.00	1.63	YES
L0000155	0	0.60270E-07	403233.8	3759050.7	54.5	3.50	4.00	1.63	YES
L0000156	0	0.60270E-07	403225.3	3759049.1	54.5	3.50	4.00	1.63	YES
L0000157	0	0.60270E-07	403216.9	3759047.4	54.4	3.50	4.00	1.63	YES
L0000158	0	0.60270E-07	403208.5	3759045.8	54.2	3.50	4.00	1.63	YES
L0000159	0	0.60270E-07	403200.0	3759044.2	54.0	3.50	4.00	1.63	YES
L0000160	0	0.60270E-07	403191.6	3759042.5	53.8	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
L0000161	0	0.60270E-07	403183.1	3759040.9	53.5	3.50	4.00	1.63	YES	
L0000162	0	0.60270E-07	403174.7	3759039.3	53.3	3.50	4.00	1.63	YES	
L0000163	0	0.60270E-07	403166.3	3759037.7	53.0	3.50	4.00	1.63	YES	
L0000164	0	0.60270E-07	403157.8	3759036.0	52.8	3.50	4.00	1.63	YES	
L0000165	0	0.60270E-07	403149.4	3759034.4	52.6	3.50	4.00	1.63	YES	
L0000166	0	0.60270E-07	403141.0	3759032.8	52.4	3.50	4.00	1.63	YES	
L0000167	0	0.60270E-07	403132.5	3759031.1	52.2	3.50	4.00	1.63	YES	
L0000168	0	0.71600E-07	403545.9	3759463.3	69.3	3.50	4.70	1.63	YES	
L0000169	0	0.71600E-07	403545.8	3759471.8	69.5	3.50	4.70	1.63	YES	
L0000170	0	0.71600E-07	403542.3	3759481.3	69.7	3.50	4.70	1.63	YES	
L0000171	0	0.71600E-07	403538.2	3759490.5	69.9	3.50	4.70	1.63	YES	
L0000172	0	0.71600E-07	403533.2	3759499.3	70.1	3.50	4.70	1.63	YES	
L0000173	0	0.71600E-07	403528.2	3759508.1	70.2	3.50	4.70	1.63	YES	
L0000174	0	0.71600E-07	403523.1	3759516.9	70.1	3.50	4.70	1.63	YES	
L0000175	0	0.71600E-07	403518.1	3759525.6	70.3	3.50	4.70	1.63	YES	

L0000176	0	0.71600E-07	403513.1	3759534.4	70.5	3.50	4.70	1.63	YES
L0000177	0	0.71600E-07	403508.1	3759543.2	70.8	3.50	4.70	1.63	YES
L0000178	0	0.71600E-07	403503.0	3759552.0	71.1	3.50	4.70	1.63	YES
L0000179	0	0.71600E-07	403498.0	3759560.8	71.1	3.50	4.70	1.63	YES
L0000180	0	0.71600E-07	403493.0	3759569.5	71.0	3.50	4.70	1.63	YES
L0000181	0	0.71600E-07	403488.0	3759578.3	71.0	3.50	4.70	1.63	YES
L0000182	0	0.71600E-07	403483.0	3759587.1	71.0	3.50	4.70	1.63	YES
L0000183	0	0.71600E-07	403478.0	3759595.9	71.1	3.50	4.70	1.63	YES
L0000184	0	0.71600E-07	403473.0	3759604.7	71.2	3.50	4.70	1.63	YES
L0000185	0	0.71600E-07	403468.0	3759613.5	71.4	3.50	4.70	1.63	YES
L0000186	0	0.71600E-07	403463.0	3759622.3	71.6	3.50	4.70	1.63	YES
L0000187	0	0.71600E-07	403458.0	3759631.1	71.8	3.50	4.70	1.63	YES
L0000188	0	0.71600E-07	403453.0	3759639.9	71.8	3.50	4.70	1.63	YES
L0000189	0	0.71600E-07	403447.6	3759648.4	71.9	3.50	4.70	1.63	YES
L0000190	0	0.71600E-07	403442.1	3759657.0	71.9	3.50	4.70	1.63	YES
L0000191	0	0.71600E-07	403436.7	3759665.5	72.0	3.50	4.70	1.63	YES
L0000192	0	0.71600E-07	403431.3	3759674.0	72.2	3.50	4.70	1.63	YES
L0000193	0	0.71600E-07	403425.8	3759682.6	72.3	3.50	4.70	1.63	YES
L0000194	0	0.71600E-07	403420.4	3759691.1	72.3	3.50	4.70	1.63	YES
L0000195	0	0.71600E-07	403415.0	3759699.6	72.3	3.50	4.70	1.63	YES
L0000196	0	0.71600E-07	403409.6	3759708.2	72.4	3.50	4.70	1.63	YES
L0000197	0	0.71600E-07	403404.1	3759716.7	72.5	3.50	4.70	1.63	YES
L0000198	0	0.71600E-07	403398.7	3759725.2	72.5	3.50	4.70	1.63	YES
L0000199	0	0.71600E-07	403393.6	3759733.9	72.5	3.50	4.70	1.63	YES
L0000200	0	0.71600E-07	403388.4	3759742.7	72.4	3.50	4.70	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
L0000201	0	0.71600E-07	403383.3	3759751.4	72.4	3.50	4.70	1.63	YES	
L0000202	0	0.71600E-07	403378.1	3759760.1	72.3	3.50	4.70	1.63	YES	
L0000203	0	0.71600E-07	403373.0	3759768.8	72.2	3.50	4.70	1.63	YES	
L0000204	0	0.71600E-07	403367.8	3759777.5	72.1	3.50	4.70	1.63	YES	
L0000205	0	0.71600E-07	403362.7	3759786.2	72.1	3.50	4.70	1.63	YES	
L0000206	0	0.71600E-07	403357.5	3759794.9	72.0	3.50	4.70	1.63	YES	
L0000207	0	0.71600E-07	403352.4	3759803.6	72.0	3.50	4.70	1.63	YES	
L0000208	0	0.71600E-07	403347.2	3759812.3	72.0	3.50	4.70	1.63	YES	
L0000209	0	0.71600E-07	403342.1	3759821.0	71.9	3.50	4.70	1.63	YES	
L0000210	0	0.71600E-07	403337.0	3759829.7	71.9	3.50	4.70	1.63	YES	
L0000211	0	0.71600E-07	403331.8	3759838.4	71.8	3.50	4.70	1.63	YES	
L0000212	0	0.71600E-07	403326.7	3759847.1	71.8	3.50	4.70	1.63	YES	

L0000213	0	0.71600E-07	403321.5	3759855.8	71.7	3.50	4.70	1.63	YES
L0000214	0	0.71600E-07	403316.4	3759864.6	71.7	3.50	4.70	1.63	YES
L0000215	0	0.71600E-07	403311.2	3759873.3	71.5	3.50	4.70	1.63	YES
L0000216	0	0.71600E-07	403306.1	3759882.0	71.4	3.50	4.70	1.63	YES
L0000217	0	0.71600E-07	403300.9	3759890.7	71.4	3.50	4.70	1.63	YES
L0000218	0	0.71600E-07	403295.8	3759899.4	71.3	3.50	4.70	1.63	YES
L0000219	0	0.71600E-07	403290.6	3759908.1	71.3	3.50	4.70	1.63	YES
L0000220	0	0.71600E-07	403285.5	3759916.8	71.3	3.50	4.70	1.63	YES
L0000221	0	0.71600E-07	403280.3	3759925.5	71.2	3.50	4.70	1.63	YES
L0000222	0	0.71600E-07	403275.2	3759934.2	71.2	3.50	4.70	1.63	YES
L0000223	0	0.71600E-07	403270.0	3759942.9	71.2	3.50	4.70	1.63	YES
L0000224	0	0.71600E-07	403264.9	3759951.6	71.2	3.50	4.70	1.63	YES
L0000225	0	0.71600E-07	403259.7	3759960.3	71.1	3.50	4.70	1.63	YES
L0000226	0	0.71600E-07	403254.6	3759969.0	71.0	3.50	4.70	1.63	YES
L0000227	0	0.71600E-07	403249.4	3759977.7	71.0	3.50	4.70	1.63	YES
L0000228	0	0.71600E-07	403244.3	3759986.5	71.0	3.50	4.70	1.63	YES
L0000229	0	0.71600E-07	403239.2	3759995.2	70.9	3.50	4.70	1.63	YES
L0000230	0	0.71600E-07	403234.0	3760003.9	70.9	3.50	4.70	1.63	YES
L0000231	0	0.71600E-07	403228.9	3760012.6	70.8	3.50	4.70	1.63	YES
L0000232	0	0.71600E-07	403223.7	3760021.3	70.8	3.50	4.70	1.63	YES
L0000233	0	0.71600E-07	403218.6	3760030.0	70.8	3.50	4.70	1.63	YES
L0000234	0	0.71600E-07	403213.4	3760038.7	70.7	3.50	4.70	1.63	YES
L0000235	0	0.71600E-07	403208.3	3760047.4	70.6	3.50	4.70	1.63	YES
L0000236	0	0.71600E-07	403203.1	3760056.1	70.5	3.50	4.70	1.63	YES
L0000237	0	0.71600E-07	403198.0	3760064.8	70.5	3.50	4.70	1.63	YES
L0000238	0	0.71600E-07	403192.8	3760073.5	70.5	3.50	4.70	1.63	YES
L0000239	0	0.71600E-07	403187.7	3760082.2	70.5	3.50	4.70	1.63	YES
L0000240	0	0.71600E-07	403182.5	3760090.9	70.5	3.50	4.70	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
L0000241	0	0.71600E-07	403177.4	3760099.6	70.4	3.50	4.70	1.63	YES	
L0000242	0	0.71600E-07	403172.2	3760108.4	70.4	3.50	4.70	1.63	YES	
L0000243	0	0.71600E-07	403167.1	3760117.1	70.5	3.50	4.70	1.63	YES	
L0000244	0	0.71600E-07	403161.9	3760125.8	70.5	3.50	4.70	1.63	YES	
L0000245	0	0.71600E-07	403156.8	3760134.5	70.4	3.50	4.70	1.63	YES	
L0000246	0	0.71600E-07	403151.6	3760143.2	70.3	3.50	4.70	1.63	YES	
L0000247	0	0.71600E-07	403146.5	3760151.9	70.3	3.50	4.70	1.63	YES	
L0000248	0	0.71600E-07	403141.3	3760160.6	70.3	3.50	4.70	1.63	YES	
L0000249	0	0.71600E-07	403136.2	3760169.3	70.3	3.50	4.70	1.63	YES	

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L0000250         0   0.71600E-07  403131.1 3760178.0    70.2     3.50     4.70     1.63     YES
L0000251         0   0.71600E-07  403125.9 3760186.7    70.1     3.50     4.70     1.63     YES
L0000252         0   0.71600E-07  403120.8 3760195.4    70.0     3.50     4.70     1.63     YES
L0000253         0   0.71600E-07  403115.6 3760204.1    70.0     3.50     4.70     1.63     YES
L0000254         0   0.71600E-07  403110.5 3760212.8    70.1     3.50     4.70     1.63     YES
L0000255         0   0.71600E-07  403105.3 3760221.5    70.1     3.50     4.70     1.63     YES
L0000256         0   0.71600E-07  403100.2 3760230.3    70.2     3.50     4.70     1.63     YES
L0000257         0   0.71600E-07  403095.0 3760239.0    70.2     3.50     4.70     1.63     YES
L0000258         0   0.71600E-07  403089.9 3760247.7    70.3     3.50     4.70     1.63     YES
L0000259         0   0.71600E-07  403084.7 3760256.4    70.4     3.50     4.70     1.63     YES
L0000260         0   0.71600E-07  403079.6 3760265.1    70.4     3.50     4.70     1.63     YES
L0000261         0   0.71600E-07  403074.4 3760273.8    70.5     3.50     4.70     1.63     YES
L0000262         0   0.71600E-07  403069.3 3760282.5    70.7     3.50     4.70     1.63     YES
L0000263         0   0.71600E-07  403064.1 3760291.2    70.9     3.50     4.70     1.63     YES
L0000264         0   0.71600E-07  403059.0 3760299.9    71.0     3.50     4.70     1.63     YES
L0000265         0   0.71600E-07  403053.8 3760308.6    71.2     3.50     4.70     1.63     YES
L0000266         0   0.71600E-07  403048.7 3760317.3    71.3     3.50     4.70     1.63     YES
L0000267         0   0.71600E-07  403043.5 3760326.0    71.4     3.50     4.70     1.63     YES
L0000268         0   0.71600E-07  403038.4 3760334.7    71.2     3.50     4.70     1.63     YES
L0000269         0   0.71600E-07  403033.3 3760343.4    71.1     3.50     4.70     1.63     YES
L0000270         0   0.71600E-07  403028.1 3760352.1    71.0     3.50     4.70     1.63     YES
L0000271         0   0.71600E-07  403023.0 3760360.9    70.9     3.50     4.70     1.63     YES
L0000272         0   0.71600E-07  403017.8 3760369.6    71.0     3.50     4.70     1.63     YES
L0000273         0   0.71600E-07  403012.7 3760378.3    71.1     3.50     4.70     1.63     YES

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                  ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations OY 2023                              ***        16:58:30
                                                                                                        PAGE  10
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                        SOURCE IDs
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 ALL        STCK1      , STCK2      , STCK3      , STCK4      , STCK5      , L0000001   , L0000002   , L0000003   ,
            L0000004   , L0000005   , L0000006   , L0000007   , L0000008   , L0000009   , L0000010   , L0000011   ,
            L0000012   , L0000013   , L0000014   , L0000015   , L0000016   , L0000017   , L0000018   , L0000019   ,
            L0000020   , L0000021   , L0000022   , L0000023   , L0000024   , L0000025   , L0000026   , L0000027   ,
            L0000028   , L0000029   , L0000030   , L0000031   , L0000032   , L0000033   , L0000034   , L0000035   ,
            L0000036   , L0000037   , L0000038   , L0000039   , L0000040   , L0000041   , L0000042   , L0000043   ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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

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

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

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

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

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

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

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

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

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

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

L0000252 , L0000253 , L0000254 , L0000255 , L0000256 , L0000257 , L0000258 , L0000259 ,

L0000260 , L0000261 , L0000262 , L0000263 , L0000264 , L0000265 , L0000266 , L0000267 ,

L0000268 , L0000269 , L0000270 , L0000271 , L0000272 , L0000273 ,

*** 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 , L0000001 , L0000002 , L0000003 ,
		L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 ,
		L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 ,
		L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 ,
		L0000028 , L0000029 , L0000030 , L0000031 , L0000032 , L0000033 , L0000034 , L0000035 ,
		L0000036 , L0000037 , L0000038 , L0000039 , L0000040 , L0000041 , L0000042 , L0000043 ,
		L0000044 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 ,
		L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 , L0000059 ,
		L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 ,
		L0000068 , L0000069 , L0000070 , L0000071 , L0000072 , L0000073 , L0000074 , L0000075 ,
		L0000076 , L0000077 , L0000078 , L0000079 , L0000080 , L0000081 , L0000082 , L0000083 ,

L0000084 , L0000085 , L0000086 , L0000087 , L0000088 , L0000089 , L0000090 , L0000091 ,

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

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

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

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

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

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

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

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

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

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

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

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

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

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

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

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

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

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

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-17.3,	-34.3,	2	10.7,	215.4,	251.4,	-23.3,	-13.7,
3	10.7,	200.8,	258.9,	-28.7,	6.4,	4	10.7,	182.0,	258.5,	-33.1,	25.4,
5	10.7,	157.6,	250.3,	-36.6,	43.6,	6	10.7,	128.7,	238.5,	-39.7,	60.4,
7	10.7,	150.6,	242.1,	-47.8,	78.5,	8	10.7,	185.1,	238.4,	-54.5,	88.7,
9	10.7,	213.9,	228.2,	-60.3,	96.2,	10	10.7,	236.2,	225.2,	-78.3,	100.8,
11	10.7,	251.4,	215.4,	-94.0,	102.4,	12	10.7,	258.9,	200.8,	-106.8,	100.8,
13	10.7,	258.5,	182.0,	-116.4,	96.1,	14	10.7,	250.3,	157.6,	-122.4,	88.6,
15	10.7,	238.5,	128.7,	-124.7,	79.5,	16	10.7,	242.1,	150.6,	-153.8,	73.2,
17	10.7,	238.4,	185.1,	-181.3,	64.7,	18	10.7,	228.2,	213.9,	-203.2,	53.8,
19	10.7,	225.2,	236.2,	-219.0,	34.3,	20	10.7,	215.4,	251.4,	-228.1,	13.7,
21	10.7,	200.8,	258.9,	-230.2,	-6.4,	22	10.7,	182.0,	258.5,	-225.4,	-25.4,
23	10.7,	157.6,	250.3,	-213.7,	-43.6,	24	10.7,	128.7,	238.5,	-198.8,	-60.4,
25	10.7,	150.6,	242.1,	-194.3,	-78.5,	26	10.7,	185.1,	238.4,	-183.9,	-88.7,
27	10.7,	213.9,	228.2,	-168.0,	-96.2,	28	10.7,	236.2,	225.2,	-146.9,	-100.8,
29	10.7,	251.4,	215.4,	-121.4,	-102.4,	30	10.7,	258.9,	200.8,	-94.0,	-100.8,
31	10.7,	258.5,	182.0,	-65.6,	-96.1,	32	10.7,	250.3,	157.6,	-35.2,	-88.6,
33	10.7,	238.5,	128.7,	-4.0,	-79.5,	34	10.7,	242.1,	150.6,	3.2,	-73.2,
35	10.7,	238.4,	185.1,	-3.8,	-64.7,	36	10.7,	228.2,	213.9,	-10.7,	-53.8,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-60.6,	21.5,	2	10.7,	215.4,	251.4,	-75.6,	33.7,
3	10.7,	200.8,	258.9,	-88.4,	44.0,	4	10.7,	182.0,	258.5,	-98.5,	52.0,
5	10.7,	157.6,	250.3,	-105.6,	58.4,	6	10.7,	128.7,	238.5,	-110.3,	63.0,
7	10.7,	150.6,	242.1,	-117.8,	68.9,	8	10.7,	185.1,	238.4,	-121.7,	67.1,
9	10.7,	213.9,	228.2,	-122.7,	63.3,	10	10.7,	236.2,	225.2,	-134.1,	57.5,
11	10.7,	251.4,	215.4,	-141.4,	50.0,	12	10.7,	258.9,	200.8,	-144.4,	41.0,
13	10.7,	258.5,	182.0,	-143.0,	30.8,	14	10.7,	250.3,	157.6,	-137.2,	19.6,
15	10.7,	238.5,	128.7,	-127.3,	9.0,	16	10.7,	242.1,	150.6,	-144.2,	3.3,
17	10.7,	238.4,	185.1,	-159.6,	-2.5,	18	10.7,	228.2,	213.9,	-170.2,	-8.6,

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  19   10.7,  225.2,  236.2, -175.6,  -21.5,     20   10.7,  215.4,  251.4, -175.7,  -33.7,
  21   10.7,  200.8,  258.9, -170.5,  -44.0,     22   10.7,  182.0,  258.5, -160.0,  -52.0,
  23   10.7,  157.6,  250.3, -144.7,  -58.4,     24   10.7,  128.7,  238.5, -128.2,  -63.0,
  25   10.7,  150.6,  242.1, -124.4,  -68.9,     26   10.7,  185.1,  238.4, -116.7,  -67.1,
  27   10.7,  213.9,  228.2, -105.5,  -63.3,     28   10.7,  236.2,  225.2,  -91.1,  -57.5,
  29   10.7,  251.4,  215.4,  -74.0,  -50.0,     30   10.7,  258.9,  200.8,  -56.4,  -41.0,
  31   10.7,  258.5,  182.0,  -39.0,  -30.8,     32   10.7,  250.3,  157.6,  -20.4,  -19.6,
  33   10.7,  238.5,  128.7,   -1.3,   -9.0,     34   10.7,  242.1,  150.6,   -6.4,   -3.3,
  35   10.7,  238.4,  185.1,  -25.4,    2.5,     36   10.7,  228.2,  213.9,  -43.7,    8.6,


SOURCE ID: STCK3
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   10.7,  225.2,  236.2,  -30.3,  -15.3,      2   10.7,  215.4,  251.4,  -39.5,    2.7,
   3   10.7,  200.8,  258.9,  -47.4,   19.8,      4   10.7,  182.0,  258.5,  -53.9,   35.3,
   5   10.7,  157.6,  250.3,  -58.8,   49.7,      6   10.7,  128.7,  238.5,  -62.6,   62.5,
   7   10.7,  150.6,  242.1,  -70.8,   76.7,      8   10.7,  185.1,  238.4,  -76.8,   82.9,
   9   10.7,  213.9,  228.2,  -81.2,   86.7,     10   10.7,  236.2,  225.2,  -97.3,   87.8,
  11   10.7,  251.4,  215.4, -110.4,   86.2,     12   10.7,  258.9,  200.8, -120.1,   82.0,
  13   10.7,  258.5,  182.0, -126.2,   75.4,     14   10.7,  250.3,  157.6, -128.5,   66.4,
  15   10.7,  238.5,  128.7, -126.9,   56.6,     16   10.7,  242.1,  150.6, -152.0,   50.3,
  17   10.7,  238.4,  185.1, -175.5,   42.4,     18   10.7,  228.2,  213.9, -193.6,   32.9,
  19   10.7,  225.2,  236.2, -205.9,   15.3,     20   10.7,  215.4,  251.4, -211.9,   -2.7,
  21   10.7,  200.8,  258.9, -211.5,  -19.8,     22   10.7,  182.0,  258.5, -204.6,  -35.3,
  23   10.7,  157.6,  250.3, -191.6,  -49.7,     24   10.7,  128.7,  238.5, -175.9,  -62.5,
  25   10.7,  150.6,  242.1, -171.4,  -76.7,     26   10.7,  185.1,  238.4, -161.7,  -82.9,
  27   10.7,  213.9,  228.2, -147.0,  -86.7,     28   10.7,  236.2,  225.2, -127.9,  -87.8,
  29   10.7,  251.4,  215.4, -105.0,  -86.2,     30   10.7,  258.9,  200.8,  -80.6,  -82.0,
  31   10.7,  258.5,  182.0,  -55.7,  -75.4,     32   10.7,  250.3,  157.6,  -29.1,  -66.4,
  33   10.7,  238.5,  128.7,   -1.8,  -56.6,     34   10.7,  242.1,  150.6,    1.4,  -50.3,
  35   10.7,  238.4,  185.1,   -9.6,  -42.4,     36   10.7,  228.2,  213.9,  -20.3,  -32.9,


SOURCE ID: STCK4
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   10.7,  225.2,  236.2,  -83.5,   47.3,      2   10.7,  215.4,  251.4, -102.7,   55.1,
   3   10.7,  200.8,  258.9, -118.8,   60.4,      4   10.7,  182.0,  258.5, -131.3,   62.9,
   5   10.7,  157.6,  250.3, -139.7,   63.5,      6   10.7,  128.7,  238.5, -144.8,   62.0,
   7   10.7,  150.6,  242.1, -151.6,   61.9,      8   10.7,  185.1,  238.4, -153.8,   54.4,
   9   10.7,  213.9,  228.2, -152.1,   45.2,     10   10.7,  236.2,  225.2, -159.9,   34.6,
  11   10.7,  251.4,  215.4, -162.8,   23.0,     12   10.7,  258.9,  200.8, -160.8,   10.7,
  13   10.7,  258.5,  182.0, -153.9,   -2.0,     14   10.7,  250.3,  157.6, -142.3,  -14.6,
  15   10.7,  238.5,  128.7, -126.4,  -25.6,     16   10.7,  242.1,  150.6, -137.2,  -30.5,
  17   10.7,  238.4,  185.1, -146.9,  -34.6,     18   10.7,  228.2,  213.9, -152.1,  -38.0,
  19   10.7,  225.2,  236.2, -152.7,  -47.3,     20   10.7,  215.4,  251.4, -148.7,  -55.1,
  21   10.7,  200.8,  258.9, -140.1,  -60.4,     22   10.7,  182.0,  258.5, -127.3,  -62.9,
  23   10.7,  157.6,  250.3, -110.6,  -63.5,     24   10.7,  128.7,  238.5,  -93.7,  -62.0,
  25   10.7,  150.6,  242.1,  -90.5,  -61.9,     26   10.7,  185.1,  238.4,  -84.6,  -54.4,
  27   10.7,  213.9,  228.2,  -76.1,  -45.2,     28   10.7,  236.2,  225.2,  -65.3,  -34.6,
  29   10.7,  251.4,  215.4,  -52.5,  -23.0,     30   10.7,  258.9,  200.8,  -40.0,  -10.7,
  31   10.7,  258.5,  182.0,  -28.1,    2.0,     32   10.7,  250.3,  157.6,  -15.3,   14.6,
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  33   10.7,  238.5,  128.7,   -2.3,   25.6,     34   10.7,  242.1,  150.6,  -13.4,   30.5,
  35   10.7,  238.4,  185.1,  -38.1,   34.6,     36   10.7,  228.2,  213.9,  -61.8,   38.0,
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*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-95.8,	86.2,	2	10.7,	215.4,	251.4,	-121.5,	91.3,
3	10.7,	200.8,	258.9,	-143.6,	92.8,	4	10.7,	182.0,	258.5,	-161.3,	90.5,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	10.7,	150.6,	242.1,	-191.4,	70.8,	8	10.7,	185.1,	238.4,	-194.6,	56.2,
9	10.7,	213.9,	228.2,	-192.5,	39.9,	10	10.7,	236.2,	225.2,	-198.8,	22.4,
11	10.7,	251.4,	215.4,	-199.0,	4.2,	12	10.7,	258.9,	200.8,	-193.1,	-14.2,
13	10.7,	258.5,	182.0,	-181.4,	-32.0,	14	10.7,	250.3,	157.6,	-164.2,	-49.0,
15	10.7,	238.5,	128.7,	-142.0,	-63.2,	16	10.7,	242.1,	150.6,	-146.1,	-70.3,
17	10.7,	238.4,	185.1,	-148.7,	-75.3,	18	10.7,	228.2,	213.9,	-146.8,	-78.4,
19	10.7,	225.2,	236.2,	-140.5,	-86.2,	20	10.7,	215.4,	251.4,	-129.8,	-91.3,
21	10.7,	200.8,	258.9,	-115.3,	-92.8,	22	10.7,	182.0,	258.5,	-97.2,	-90.5,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	10.7,	150.6,	242.1,	-50.7,	-70.8,	26	10.7,	185.1,	238.4,	-43.9,	-56.2,
27	10.7,	213.9,	228.2,	-35.7,	-39.9,	28	10.7,	236.2,	225.2,	-26.4,	-22.4,
29	10.7,	251.4,	215.4,	-16.4,	-4.2,	30	10.7,	258.9,	200.8,	-7.6,	14.2,
31	10.7,	258.5,	182.0,	-0.5,	32.0,	32	10.7,	250.3,	157.6,	6.6,	49.0,
33	10.7,	238.5,	128.7,	13.3,	63.2,	34	10.7,	242.1,	150.6,	-4.5,	70.3,
35	10.7,	238.4,	185.1,	-36.4,	75.3,	36	10.7,	228.2,	213.9,	-67.1,	78.4,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

```
     402680.3,  402746.2,  402812.2,  402878.1,  402944.0,  403010.0,  403075.9,  403141.8,  403207.8,  403273.7,
     403339.6,  403405.5,  403471.5,  403537.4,  403603.3,  403669.3,  403735.2,  403801.1,  403867.1,  403933.0,
     403998.9,
```

*** Y-COORDINATES OF GRID ***

(METERS)

3759000.9, 3759070.5, 3759140.2, 3759209.8, 3759279.4, 3759349.0, 3759418.7, 3759488.3, 3759557.9, 3759627.6,
3759697.2, 3759766.8, 3759836.5, 3759906.1, 3759975.7, 3760045.4, 3760115.0, 3760184.6, 3760254.2, 3760323.9,
3760393.5,

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	65.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	56.20	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	59.50
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	55.00	55.10	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)

(METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	84.30	85.20	87.50	88.10	90.20	92.90
3760323.87	76.50	78.70	80.70	82.30	83.80	84.90	86.10	88.80	90.70
3760254.24	75.30	77.80	78.80	80.80	82.10	83.20	84.90	87.20	89.70
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	84.00	86.10	88.20
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	87.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	66.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 403867.06	403932.99	403998.92
3760393.50	94.90	97.60	99.60
3760323.87	92.60	95.30	97.80
3760254.24	91.60	94.30	96.20
3760184.61	91.00	92.90	95.10
3760114.98	90.20	92.20	94.00
3760045.35	89.50	91.10	93.10
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60
3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90

3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	67.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	59.00	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	62.60
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	57.50	56.80	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	324.50	361.90	361.90	361.90	361.90	361.90
3760323.87	76.50	78.70	80.70	82.30	324.50	361.90	361.90	361.90	361.90
3760254.24	75.30	77.80	78.80	80.80	82.10	324.70	324.70	361.90	361.90
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	324.50	324.70	336.70
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	323.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	70.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	403867.06	403932.99	403998.92
3760393.50	361.90	361.90	361.90
3760323.87	361.90	361.90	361.90
3760254.24	361.90	361.90	361.90
3760184.61	361.10	361.90	361.90
3760114.98	324.50	324.70	336.70
3760045.35	89.50	91.10	323.90
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60

3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90
3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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

(403076.6,	3759566.9,	63.0,	63.0,	0.0);	(403074.6,	3759594.7,	63.1,	63.1,	0.0);
(403074.3,	3759652.4,	63.8,	63.8,	0.0);	(403036.2,	3759545.2,	61.6,	61.6,	0.0);
(403491.1,	3759689.7,	73.7,	73.7,	0.0);	(403558.2,	3759512.8,	71.0,	71.0,	0.0);
(403587.6,	3759479.4,	70.9,	70.9,	0.0);	(403471.1,	3759691.3,	73.3,	73.3,	0.0);
(403097.0,	3760166.2,	69.1,	69.1,	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)
L0000005	403339.6	3759627.6	0.57
L0000006	403339.6	3759627.6	-7.10
L0000007	403339.6	3759627.6	-0.35
L0000023	403207.8	3759557.9	-4.23
L0000024	403207.8	3759557.9	-2.88
L0000031	403405.5	3759627.6	-4.59
L0000032	403405.5	3759627.6	-3.45
L0000062	403537.4	3759418.7	0.82
L0000090	403669.3	3759209.8	-3.56
L0000091	403669.3	3759209.8	-5.02
L0000142	403339.6	3759070.5	-4.58

```
                                  L0000143            403339.6     3759070.5             -3.94
                                  L0000170            403537.4     3759488.3             -1.57
                                  L0000171            403537.4     3759488.3             -7.74
                                  L0000186            403471.5     3759627.6             -0.10
                                  L0000195            403405.5     3759697.2             -0.35
                                  L0000210            403339.6     3759836.5             -2.86
                                  L0000211            403339.6     3759836.5             -2.05
                                  L0000234            403207.8     3760045.4             -1.37
                                  L0000235            403207.8     3760045.4             -7.99
                                  L0000259            403075.9     3760254.2             -1.02

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                                ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations OY 2023                                            ***        16:58:30
                                                                                                                       PAGE  25
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                             *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                              (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1  1 1 1 1 1

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


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

                                                    1.54,   3.09,   5.14,   8.23,  10.80,

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                                ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations OY 2023                                            ***        16:58:30
                                                                                                                       PAGE  26
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

  Surface file:   E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC                                         Met Version:  16216
  Profile file:   E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:     3166                 Upper air station no.:     3190
                Name: UNKNOWN                                 Name: UNKNOWN
                Year:   2010                                  Year:   2010
```

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
10	01	01	1	01	-38.6	0.384	-9.000	-9.000	-999.	572.	162.4	0.34	0.73	1.00	3.10	321.	9.1	283.8	5.5
10	01	01	1	02	-33.5	0.333	-9.000	-9.000	-999.	462.	121.8	0.34	0.73	1.00	2.70	217.	9.1	282.5	5.5
10	01	01	1	03	-21.9	0.218	-9.000	-9.000	-999.	251.	52.2	0.34	0.73	1.00	1.80	290.	9.1	282.5	5.5
10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10	01	01	1	09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10	01	01	1	10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10	01	01	1	11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10	01	01	1	12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10	01	01	1	13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10	01	01	1	14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10	01	01	1	15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10	01	01	1	16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10	01	01	1	17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10	01	01	1	18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10	01	01	1	19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10	01	01	1	20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73	1.00	1.30	25.	9.1	287.0	5.5
10	01	01	1	21	-21.6	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	343.	9.1	285.9	5.5
10	01	01	1	22	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	332.	9.1	284.9	5.5
10	01	01	1	23	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	178.	9.1	284.2	5.5
10	01	01	1	24	-11.8	0.154	-9.000	-9.000	-999.	145.	27.6	0.34	0.73	1.00	1.30	28.	9.1	283.1	5.5

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	283.8	99.0	-99.00	-99.00
10	01	01	01	9.1	1	321.	3.10	-999.0	99.0	-99.00	-99.00

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

*** 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 ,
L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	0.00009	0.00010	0.00012	0.00015	0.00019	0.00045	0.00029	0.00024	0.00022
3760323.87	0.00010	0.00012	0.00014	0.00017	0.00023	0.00049	0.00060	0.00033	0.00028
3760254.24	0.00011	0.00013	0.00016	0.00019	0.00025	0.00037	0.00090	0.00051	0.00037
3760184.61	0.00012	0.00015	0.00018	0.00022	0.00027	0.00036	0.00055	0.00107	0.00051
3760114.98	0.00013	0.00016	0.00020	0.00024	0.00030	0.00038	0.00049	0.00087	0.00078
3760045.35	0.00015	0.00018	0.00022	0.00027	0.00033	0.00042	0.00052	0.00068	0.00113
3759975.72	0.00016	0.00019	0.00024	0.00029	0.00037	0.00046	0.00058	0.00072	0.00098
3759906.09	0.00017	0.00021	0.00026	0.00032	0.00040	0.00051	0.00065	0.00081	0.00101
3759836.46	0.00018	0.00022	0.00028	0.00035	0.00044	0.00056	0.00073	0.00096	0.00130
3759766.83	0.00019	0.00024	0.00030	0.00037	0.00047	0.00060	0.00081	0.00132	0.00154
3759697.20	0.00020	0.00024	0.00031	0.00039	0.00049	0.00063	0.00093	0.00123	0.00169
3759627.57	0.00020	0.00025	0.00031	0.00040	0.00051	0.00068	0.00113	0.00118	0.00211
3759557.94	0.00020	0.00025	0.00031	0.00039	0.00051	0.00072	0.00114	0.00194	0.00310
3759488.31	0.00019	0.00024	0.00030	0.00038	0.00051	0.00073	0.00116	0.00185	0.00194
3759418.68	0.00018	0.00023	0.00029	0.00038	0.00051	0.00072	0.00098	0.00109	0.00096
3759349.05	0.00017	0.00021	0.00027	0.00036	0.00048	0.00063	0.00070	0.00069	0.00062
3759279.42	0.00016	0.00020	0.00025	0.00033	0.00041	0.00050	0.00050	0.00047	0.00045
3759209.79	0.00015	0.00018	0.00023	0.00028	0.00034	0.00037	0.00037	0.00036	0.00036
3759140.16	0.00013	0.00016	0.00020	0.00023	0.00026	0.00028	0.00030	0.00032	0.00035
3759070.53	0.00012	0.00014	0.00016	0.00019	0.00021	0.00023	0.00026	0.00042	0.00065
3759000.90	0.00011	0.00012	0.00014	0.00015	0.00017	0.00018	0.00022	0.00038	0.00040

*** 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 ,
L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	0.00021	0.00020	0.00019	0.00018	0.00017	0.00016	0.00014	0.00013	0.00012
3760323.87	0.00026	0.00025	0.00023	0.00022	0.00020	0.00018	0.00017	0.00015	0.00014
3760254.24	0.00033	0.00031	0.00029	0.00026	0.00024	0.00022	0.00019	0.00017	0.00015
3760184.61	0.00043	0.00039	0.00036	0.00032	0.00029	0.00026	0.00023	0.00020	0.00017
3760114.98	0.00056	0.00049	0.00045	0.00040	0.00035	0.00030	0.00026	0.00023	0.00019

3760045.35	0.00077	0.00064	0.00056	0.00049	0.00042	0.00036	0.00031	0.00026	0.00021
3759975.72	0.00127	0.00086	0.00072	0.00061	0.00052	0.00043	0.00035	0.00028	0.00022
3759906.09	0.00156	0.00122	0.00094	0.00077	0.00062	0.00049	0.00038	0.00029	0.00023
3759836.46	0.00155	0.00181	0.00128	0.00095	0.00071	0.00052	0.00039	0.00030	0.00023
3759766.83	0.00186	0.00213	0.00191	0.00113	0.00075	0.00053	0.00039	0.00029	0.00022
3759697.20	0.00225	0.00198	0.00256	0.00127	0.00076	0.00052	0.00037	0.00028	0.00022
3759627.57	0.00284	0.00300	0.00254	0.00169	0.00080	0.00052	0.00037	0.00028	0.00021
3759557.94	0.00256	0.00189	0.00169	0.00180	0.00103	0.00056	0.00038	0.00028	0.00021
3759488.31	0.00156	0.00123	0.00114	0.00200	0.00139	0.00062	0.00040	0.00029	0.00022
3759418.68	0.00085	0.00080	0.00078	0.00088	0.00132	0.00068	0.00042	0.00031	0.00023
3759349.05	0.00058	0.00057	0.00057	0.00059	0.00069	0.00114	0.00048	0.00032	0.00024
3759279.42	0.00044	0.00045	0.00045	0.00046	0.00050	0.00080	0.00064	0.00036	0.00025
3759209.79	0.00037	0.00039	0.00040	0.00042	0.00045	0.00053	0.00092	0.00041	0.00025
3759140.16	0.00039	0.00043	0.00048	0.00055	0.00065	0.00087	0.00120	0.00043	0.00022
3759070.53	0.00098	0.00085	0.00093	0.00064	0.00050	0.00042	0.00035	0.00025	0.00018
3759000.90	0.00036	0.00033	0.00031	0.00029	0.00026	0.00024	0.00021	0.00018	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 ,
L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS) 403867.06	403932.99	403998.92
3760393.50	0.00011	0.00010	0.00009
3760323.87	0.00012	0.00011	0.00010
3760254.24	0.00014	0.00012	0.00011
3760184.61	0.00015	0.00013	0.00011
3760114.98	0.00016	0.00014	0.00012
3760045.35	0.00017	0.00014	0.00012
3759975.72	0.00018	0.00015	0.00012
3759906.09	0.00018	0.00015	0.00012
3759836.46	0.00018	0.00014	0.00012
3759766.83	0.00017	0.00014	0.00011
3759697.20	0.00017	0.00014	0.00011
3759627.57	0.00017	0.00014	0.00011
3759557.94	0.00017	0.00014	0.00011
3759488.31	0.00017	0.00014	0.00012
3759418.68	0.00018	0.00014	0.00012

```
 3759349.05 |       0.00018      0.00015      0.00012
 3759279.42 |       0.00018      0.00014      0.00011
 3759209.79 |       0.00018      0.00014      0.00011
 3759140.16 |       0.00017      0.00013      0.00011
 3759070.53 |       0.00015      0.00012      0.00010
 3759000.90 |       0.00013      0.00011      0.00009
```


*** 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   ,
L0000001   , L0000002   , L0000003   , L0000004   , L0000005   , L0000006   , L0000007   , L0000008   ,
L0000009   , L0000010   , L0000011   , L0000012   , L0000013   , L0000014   , L0000015   , L0000016   ,
L0000017   , L0000018   , L0000019   , L0000020   , L0000021   , L0000022   , L0000023   , . . .   ,

*** 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
403076.63	3759566.89	0.00115	403074.61	3759594.66	0.00113
403074.33	3759652.43	0.00107	403036.23	3759545.23	0.00084
403491.13	3759689.69	0.00107	403558.25	3759512.77	0.00101
403587.63	3759479.41	0.00074	403471.13	3759691.31	0.00129
403096.96	3760166.19	0.00063			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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	0.00310 AT	(403207.76, 3759557.94, 66.70, 66.70, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00300 AT	(403339.62, 3759627.57, 68.10, 68.10, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00284 AT	(403273.69, 3759627.57, 67.70, 67.70, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00256 AT	(403273.69, 3759557.94, 66.40, 66.40, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00256 AT	(403405.55, 3759697.20, 72.10, 72.10, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00254 AT	(403405.55, 3759627.57, 70.40, 70.40, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00225 AT	(403273.69, 3759697.20, 68.00, 68.00, 0.00)	GC	UCART1

```
         8TH HIGHEST VALUE IS       0.00213 AT (  403339.62,  3759766.83,    71.30,    71.30,    0.00)  GC  UCART1
         9TH HIGHEST VALUE IS       0.00211 AT (  403207.76,  3759627.57,    67.30,    67.30,    0.00)  GC  UCART1
        10TH HIGHEST VALUE IS       0.00200 AT (  403471.48,  3759488.31,    68.50,    68.50,    0.00)  GC  UCART1


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

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations OY 2023                                      ***        16:58:30
                                                                                                               PAGE  32
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of            0 Fatal Error Message(s)
A Total of            9 Warning Message(s)
A Total of         1277 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          152 Calm Hours Identified

A Total of         1125 Missing Hours Identified (  2.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     408        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     409        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     410        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     411        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     412        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186     896       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     896       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:      15010101
MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 2/10/2022
** File: C:\Lakes\AERMOD View\19391 Whitter Blvd BP 2YR\19391 Whitter Blvd BP 2YR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 19391 Whittier Blvd BP
   TITLETWO DPM Concentrations Years 2024 and 2025
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "19391 Whitter Blvd BP 2YR.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      403193.640  3759565.730       66.820
** DESCRSRC Truck idling Location
   LOCATION STCK2        POINT      403256.045  3759598.705       67.440
** DESCRSRC Truck idling Location
   LOCATION STCK3        POINT      403214.561  3759575.303       66.930
** DESCRSRC Truck idling Location
   LOCATION STCK4        POINT      403285.474  3759616.787       67.600
** DESCRSRC Truck idling Location
   LOCATION STCK5        POINT      403325.895  3759622.106       67.810
** DESCRSRC Truck idling Location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site truck travel
```

```
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.03E-06
** Elevated
** Building Height = 10.67
** SZINIT = 4.96
** Nodes = 6
** 403375.398, 3759658.946, 69.18, 3.50, 4.00
** 403366.638, 3759651.020, 68.32, 3.50, 4.00
** 403359.964, 3759643.512, 68.04, 3.50, 4.00
** 403352.039, 3759636.003, 68.03, 3.50, 4.00
** 403321.587, 3759619.318, 67.72, 3.50, 4.00
** 403188.103, 3759543.816, 66.04, 3.50, 4.00
** ------------------------------------------------------------------
   LOCATION L0000274     VOLUME   403372.213 3759656.064 68.90
   LOCATION L0000275     VOLUME   403365.926 3759650.218 68.32
   LOCATION L0000276     VOLUME   403360.218 3759643.798 68.11
   LOCATION L0000277     VOLUME   403354.005 3759637.867 68.17
   LOCATION L0000278     VOLUME   403346.880 3759633.177 68.10
   LOCATION L0000279     VOLUME   403339.346 3759629.049 68.04
   LOCATION L0000280     VOLUME   403331.812 3759624.921 67.93
   LOCATION L0000281     VOLUME   403324.279 3759620.793 67.77
   LOCATION L0000282     VOLUME   403316.781 3759616.599 67.69
   LOCATION L0000283     VOLUME   403309.303 3759612.370 67.68
   LOCATION L0000284     VOLUME   403301.826 3759608.140 67.64
   LOCATION L0000285     VOLUME   403294.348 3759603.911 67.57
   LOCATION L0000286     VOLUME   403286.871 3759599.681 67.53
   LOCATION L0000287     VOLUME   403279.393 3759595.452 67.48
   LOCATION L0000288     VOLUME   403271.916 3759591.222 67.43
   LOCATION L0000289     VOLUME   403264.438 3759586.993 67.38
   LOCATION L0000290     VOLUME   403256.961 3759582.763 67.27
   LOCATION L0000291     VOLUME   403249.483 3759578.534 67.16
   LOCATION L0000292     VOLUME   403242.006 3759574.304 67.06
   LOCATION L0000293     VOLUME   403234.528 3759570.075 66.94
   LOCATION L0000294     VOLUME   403227.051 3759565.846 66.85
   LOCATION L0000295     VOLUME   403219.573 3759561.616 66.80
   LOCATION L0000296     VOLUME   403212.096 3759557.387 66.75
   LOCATION L0000297     VOLUME   403204.618 3759553.157 66.59
   LOCATION L0000298     VOLUME   403197.140 3759548.928 66.29
   LOCATION L0000299     VOLUME   403189.663 3759544.698 66.05
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Offsite from Project dwy s/b along Whitter Frontage Rd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.61E-06
** Elevated
```

```
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 4
** 403383.146, 3759663.541, 69.95, 3.50, 4.00
** 403507.316, 3759446.613, 68.09, 3.50, 4.00
** 403511.242, 3759446.613, 68.15, 3.50, 4.00
** 403520.076, 3759451.030, 68.52, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000300     VOLUME   403385.280 3759659.813 70.03
   LOCATION L0000301     VOLUME   403389.548 3759652.357 69.98
   LOCATION L0000302     VOLUME   403393.816 3759644.901 70.08
   LOCATION L0000303     VOLUME   403398.083 3759637.446 70.40
   LOCATION L0000304     VOLUME   403402.351 3759629.990 70.43
   LOCATION L0000305     VOLUME   403406.619 3759622.534 70.34
   LOCATION L0000306     VOLUME   403410.886 3759615.078 70.21
   LOCATION L0000307     VOLUME   403415.154 3759607.622 70.06
   LOCATION L0000308     VOLUME   403419.422 3759600.167 69.93
   LOCATION L0000309     VOLUME   403423.689 3759592.711 69.84
   LOCATION L0000310     VOLUME   403427.957 3759585.255 69.78
   LOCATION L0000311     VOLUME   403432.225 3759577.799 69.72
   LOCATION L0000312     VOLUME   403436.492 3759570.343 69.64
   LOCATION L0000313     VOLUME   403440.760 3759562.888 69.55
   LOCATION L0000314     VOLUME   403445.028 3759555.432 69.44
   LOCATION L0000315     VOLUME   403449.295 3759547.976 69.28
   LOCATION L0000316     VOLUME   403453.563 3759540.520 69.16
   LOCATION L0000317     VOLUME   403457.831 3759533.065 69.03
   LOCATION L0000318     VOLUME   403462.098 3759525.609 68.88
   LOCATION L0000319     VOLUME   403466.366 3759518.153 68.78
   LOCATION L0000320     VOLUME   403470.634 3759510.697 68.77
   LOCATION L0000321     VOLUME   403474.901 3759503.241 68.75
   LOCATION L0000322     VOLUME   403479.169 3759495.786 68.72
   LOCATION L0000323     VOLUME   403483.437 3759488.330 68.63
   LOCATION L0000324     VOLUME   403487.705 3759480.874 68.52
   LOCATION L0000325     VOLUME   403491.972 3759473.418 68.41
   LOCATION L0000326     VOLUME   403496.240 3759465.962 68.30
   LOCATION L0000327     VOLUME   403500.508 3759458.507 68.20
   LOCATION L0000328     VOLUME   403504.775 3759451.051 68.09
   LOCATION L0000329     VOLUME   403510.793 3759446.613 68.07
   LOCATION L0000330     VOLUME   403518.524 3759450.254 68.28
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC South on Whittier Blvd to Washington Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.9E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
```

```
** Nodes = 14
** 403526.824, 3759455.741, 68.65, 3.50, 4.00
** 403561.451, 3759395.666, 67.72, 3.50, 4.00
** 403590.654, 3759346.021, 66.66, 3.50, 4.00
** 403619.440, 3759297.627, 66.39, 3.50, 4.00
** 403665.747, 3759216.276, 64.97, 3.50, 4.00
** 403687.024, 3759180.815, 65.01, 3.50, 4.00
** 403697.453, 3759163.710, 64.84, 3.50, 4.00
** 403700.374, 3759155.367, 64.87, 3.50, 4.00
** 403700.791, 3759147.023, 64.93, 3.50, 4.00
** 403696.619, 3759138.679, 64.56, 3.50, 4.00
** 403687.441, 3759131.587, 64.03, 3.50, 4.00
** 403661.575, 3759130.753, 63.12, 3.50, 4.00
** 403635.293, 3759128.250, 62.14, 3.50, 4.00
** 403132.336, 3759031.102, 52.34, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000331     VOLUME   403528.969 3759452.019 68.52
   LOCATION L0000332     VOLUME   403533.259 3759444.576 68.43
   LOCATION L0000333     VOLUME   403537.549 3759437.134 68.33
   LOCATION L0000334     VOLUME   403541.839 3759429.691 68.23
   LOCATION L0000335     VOLUME   403546.129 3759422.248 68.12
   LOCATION L0000336     VOLUME   403550.419 3759414.805 68.02
   LOCATION L0000337     VOLUME   403554.709 3759407.362 67.93
   LOCATION L0000338     VOLUME   403558.999 3759399.919 67.88
   LOCATION L0000339     VOLUME   403563.318 3759392.492 67.86
   LOCATION L0000340     VOLUME   403567.673 3759385.088 67.79
   LOCATION L0000341     VOLUME   403572.029 3759377.683 67.69
   LOCATION L0000342     VOLUME   403576.385 3759370.278 67.54
   LOCATION L0000343     VOLUME   403580.740 3759362.873 67.43
   LOCATION L0000344     VOLUME   403585.096 3759355.469 67.29
   LOCATION L0000345     VOLUME   403589.452 3759348.064 67.11
   LOCATION L0000346     VOLUME   403593.834 3759340.675 66.91
   LOCATION L0000347     VOLUME   403598.226 3759333.291 66.71
   LOCATION L0000348     VOLUME   403602.617 3759325.908 66.55
   LOCATION L0000349     VOLUME   403607.009 3759318.525 66.41
   LOCATION L0000350     VOLUME   403611.401 3759311.141 66.32
   LOCATION L0000351     VOLUME   403615.793 3759303.758 66.26
   LOCATION L0000352     VOLUME   403620.161 3759296.361 66.20
   LOCATION L0000353     VOLUME   403624.410 3759288.895 66.08
   LOCATION L0000354     VOLUME   403628.660 3759281.429 65.92
   LOCATION L0000355     VOLUME   403632.910 3759273.963 65.87
   LOCATION L0000356     VOLUME   403637.160 3759266.497 65.80
   LOCATION L0000357     VOLUME   403641.410 3759259.031 65.70
   LOCATION L0000358     VOLUME   403645.660 3759251.565 65.55
   LOCATION L0000359     VOLUME   403649.909 3759244.099 65.38
   LOCATION L0000360     VOLUME   403654.159 3759236.633 65.20
   LOCATION L0000361     VOLUME   403658.409 3759229.167 65.08
   LOCATION L0000362     VOLUME   403662.659 3759221.701 65.03
   LOCATION L0000363     VOLUME   403666.955 3759214.262 65.06
   LOCATION L0000364     VOLUME   403671.375 3759206.896 65.18
   LOCATION L0000365     VOLUME   403675.795 3759199.529 65.30
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LOCATION L0000366     VOLUME   403680.215 3759192.163 65.28
LOCATION L0000367     VOLUME   403684.635 3759184.796 65.20
LOCATION L0000368     VOLUME   403689.079 3759177.444 65.11
LOCATION L0000369     VOLUME   403693.552 3759170.109 65.01
LOCATION L0000370     VOLUME   403697.816 3759162.676 64.98
LOCATION L0000371     VOLUME   403700.416 3759154.521 64.94
LOCATION L0000372     VOLUME   403700.306 3759146.054 64.83
LOCATION L0000373     VOLUME   403696.345 3759138.468 64.60
LOCATION L0000374     VOLUME   403689.548 3759133.215 64.32
LOCATION L0000375     VOLUME   403681.516 3759131.396 64.05
LOCATION L0000376     VOLUME   403672.929 3759131.119 63.79
LOCATION L0000377     VOLUME   403664.343 3759130.842 63.54
LOCATION L0000378     VOLUME   403655.780 3759130.201 63.27
LOCATION L0000379     VOLUME   403647.228 3759129.386 62.98
LOCATION L0000380     VOLUME   403638.676 3759128.572 62.66
LOCATION L0000381     VOLUME   403630.194 3759127.265 62.32
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LOCATION L0000383     VOLUME   403613.325 3759124.006 61.67
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LOCATION L0000386     VOLUME   403588.020 3759119.119 60.80
LOCATION L0000387     VOLUME   403579.585 3759117.489 60.59
LOCATION L0000388     VOLUME   403571.150 3759115.860 60.42
LOCATION L0000389     VOLUME   403562.715 3759114.231 60.30
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LOCATION L0000394     VOLUME   403520.541 3759106.085 59.62
LOCATION L0000395     VOLUME   403512.106 3759104.456 59.52
LOCATION L0000396     VOLUME   403503.671 3759102.826 59.41
LOCATION L0000397     VOLUME   403495.236 3759101.197 59.29
LOCATION L0000398     VOLUME   403486.801 3759099.568 59.11
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LOCATION L0000401     VOLUME   403461.496 3759094.680 58.50
LOCATION L0000402     VOLUME   403453.062 3759093.051 58.26
LOCATION L0000403     VOLUME   403444.627 3759091.422 58.02
LOCATION L0000404     VOLUME   403436.192 3759089.793 57.76
LOCATION L0000405     VOLUME   403427.757 3759088.163 57.55
LOCATION L0000406     VOLUME   403419.322 3759086.534 57.37
LOCATION L0000407     VOLUME   403410.887 3759084.905 57.32
LOCATION L0000408     VOLUME   403402.452 3759083.276 57.24
LOCATION L0000409     VOLUME   403394.017 3759081.647 57.13
LOCATION L0000410     VOLUME   403385.582 3759080.017 57.09
LOCATION L0000411     VOLUME   403377.147 3759078.388 57.03
LOCATION L0000412     VOLUME   403368.713 3759076.759 56.95
LOCATION L0000413     VOLUME   403360.278 3759075.130 56.89
LOCATION L0000414     VOLUME   403351.843 3759073.500 56.84
LOCATION L0000415     VOLUME   403343.408 3759071.871 56.78
LOCATION L0000416     VOLUME   403334.973 3759070.242 56.72
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   LOCATION L0000418     VOLUME   403318.103 3759066.984 56.57
   LOCATION L0000419     VOLUME   403309.668 3759065.354 56.37
   LOCATION L0000420     VOLUME   403301.233 3759063.725 56.17
   LOCATION L0000421     VOLUME   403292.799 3759062.096 55.97
   LOCATION L0000422     VOLUME   403284.364 3759060.467 55.70
   LOCATION L0000423     VOLUME   403275.929 3759058.837 55.41
   LOCATION L0000424     VOLUME   403267.494 3759057.208 55.13
   LOCATION L0000425     VOLUME   403259.059 3759055.579 54.93
   LOCATION L0000426     VOLUME   403250.624 3759053.950 54.75
   LOCATION L0000427     VOLUME   403242.189 3759052.321 54.55
   LOCATION L0000428     VOLUME   403233.754 3759050.691 54.50
   LOCATION L0000429     VOLUME   403225.319 3759049.062 54.47
   LOCATION L0000430     VOLUME   403216.884 3759047.433 54.40
   LOCATION L0000431     VOLUME   403208.450 3759045.804 54.23
   LOCATION L0000432     VOLUME   403200.015 3759044.174 54.01
   LOCATION L0000433     VOLUME   403191.580 3759042.545 53.80
   LOCATION L0000434     VOLUME   403183.145 3759040.916 53.54
   LOCATION L0000435     VOLUME   403174.710 3759039.287 53.26
   LOCATION L0000436     VOLUME   403166.275 3759037.658 53.01
   LOCATION L0000437     VOLUME   403157.840 3759036.028 52.81
   LOCATION L0000438     VOLUME   403149.405 3759034.399 52.62
   LOCATION L0000439     VOLUME   403140.970 3759032.770 52.43
   LOCATION L0000440     VOLUME   403132.535 3759031.141 52.25
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Northbound along Whitter Blvd
** PREFIX
** Length of Side = 10.11
** Configuration = Adjacent
** Emission Rate = 5.61E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 7
** 403541.907, 3759460.234, 69.09, 3.50, 4.70
** 403548.291, 3759465.199, 69.37, 3.50, 4.70
** 403540.134, 3759487.187, 69.75, 3.50, 4.70
** 403492.611, 3759570.175, 70.72, 3.50, 4.70
** 403452.890, 3759640.041, 71.88, 3.50, 4.70
** 403398.984, 3759724.801, 72.44, 3.50, 4.70
** 403007.874, 3760386.371, 71.03, 3.50, 4.70
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   LOCATION L0000442     VOLUME   403545.826 3759471.842 69.48
   LOCATION L0000443     VOLUME   403542.308 3759481.325 69.66
   LOCATION L0000444     VOLUME   403538.215 3759490.539 69.93
   LOCATION L0000445     VOLUME   403533.188 3759499.317 70.12
   LOCATION L0000446     VOLUME   403528.162 3759508.094 70.18
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LOCATION L0000447     VOLUME   403523.135 3759516.871 70.13
LOCATION L0000448     VOLUME   403518.109 3759525.649 70.26
LOCATION L0000449     VOLUME   403513.082 3759534.426 70.53
LOCATION L0000450     VOLUME   403508.056 3759543.204 70.83
LOCATION L0000451     VOLUME   403503.030 3759551.981 71.13
LOCATION L0000452     VOLUME   403498.003 3759560.759 71.07
LOCATION L0000453     VOLUME   403492.977 3759569.536 71.01
LOCATION L0000454     VOLUME   403487.976 3759578.328 70.99
LOCATION L0000455     VOLUME   403482.977 3759587.121 71.05
LOCATION L0000456     VOLUME   403477.977 3759595.914 71.14
LOCATION L0000457     VOLUME   403472.978 3759604.708 71.24
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LOCATION L0000459     VOLUME   403462.980 3759622.294 71.63
LOCATION L0000460     VOLUME   403457.981 3759631.087 71.77
LOCATION L0000461     VOLUME   403452.982 3759639.880 71.85
LOCATION L0000462     VOLUME   403447.562 3759648.419 71.87
LOCATION L0000463     VOLUME   403442.134 3759656.954 71.94
LOCATION L0000464     VOLUME   403436.705 3759665.489 72.05
LOCATION L0000465     VOLUME   403431.277 3759674.024 72.20
LOCATION L0000466     VOLUME   403425.849 3759682.559 72.31
LOCATION L0000467     VOLUME   403420.421 3759691.094 72.30
LOCATION L0000468     VOLUME   403414.993 3759699.629 72.34
LOCATION L0000469     VOLUME   403409.565 3759708.164 72.42
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LOCATION L0000475     VOLUME   403378.133 3759760.071 72.29
LOCATION L0000476     VOLUME   403372.986 3759768.778 72.20
LOCATION L0000477     VOLUME   403367.838 3759777.485 72.12
LOCATION L0000478     VOLUME   403362.691 3759786.192 72.06
LOCATION L0000479     VOLUME   403357.543 3759794.899 72.03
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LOCATION L0000481     VOLUME   403347.248 3759812.313 71.99
LOCATION L0000482     VOLUME   403342.101 3759821.020 71.94
LOCATION L0000483     VOLUME   403336.953 3759829.727 71.89
LOCATION L0000484     VOLUME   403331.806 3759838.434 71.81
LOCATION L0000485     VOLUME   403326.658 3759847.141 71.78
LOCATION L0000486     VOLUME   403321.511 3759855.848 71.74
LOCATION L0000487     VOLUME   403316.364 3759864.555 71.66
LOCATION L0000488     VOLUME   403311.216 3759873.262 71.53
LOCATION L0000489     VOLUME   403306.069 3759881.969 71.43
LOCATION L0000490     VOLUME   403300.921 3759890.677 71.36
LOCATION L0000491     VOLUME   403295.774 3759899.384 71.35
LOCATION L0000492     VOLUME   403290.626 3759908.091 71.32
LOCATION L0000493     VOLUME   403285.479 3759916.798 71.27
LOCATION L0000494     VOLUME   403280.331 3759925.505 71.20
LOCATION L0000495     VOLUME   403275.184 3759934.212 71.19
LOCATION L0000496     VOLUME   403270.036 3759942.919 71.22
LOCATION L0000497     VOLUME   403264.889 3759951.626 71.20
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   LOCATION L0000498     VOLUME   403259.741 3759960.333 71.10
   LOCATION L0000499     VOLUME   403254.594 3759969.040 71.01
   LOCATION L0000500     VOLUME   403249.446 3759977.747 70.98
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   LOCATION L0000506     VOLUME   403218.561 3760029.989 70.75
   LOCATION L0000507     VOLUME   403213.414 3760038.696 70.67
   LOCATION L0000508     VOLUME   403208.267 3760047.403 70.56
   LOCATION L0000509     VOLUME   403203.119 3760056.110 70.47
   LOCATION L0000510     VOLUME   403197.972 3760064.817 70.46
   LOCATION L0000511     VOLUME   403192.824 3760073.525 70.49
   LOCATION L0000512     VOLUME   403187.677 3760082.232 70.47
   LOCATION L0000513     VOLUME   403182.529 3760090.939 70.45
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   LOCATION L0000515     VOLUME   403172.234 3760108.353 70.40
   LOCATION L0000516     VOLUME   403167.087 3760117.060 70.47
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   LOCATION L0000518     VOLUME   403156.792 3760134.474 70.40
   LOCATION L0000519     VOLUME   403151.644 3760143.181 70.29
   LOCATION L0000520     VOLUME   403146.497 3760151.888 70.32
   LOCATION L0000521     VOLUME   403141.349 3760160.595 70.34
   LOCATION L0000522     VOLUME   403136.202 3760169.302 70.30
   LOCATION L0000523     VOLUME   403131.054 3760178.009 70.19
   LOCATION L0000524     VOLUME   403125.907 3760186.716 70.07
   LOCATION L0000525     VOLUME   403120.759 3760195.423 69.98
   LOCATION L0000526     VOLUME   403115.612 3760204.130 69.95
   LOCATION L0000527     VOLUME   403110.464 3760212.837 70.08
   LOCATION L0000528     VOLUME   403105.317 3760221.544 70.15
   LOCATION L0000529     VOLUME   403100.170 3760230.251 70.18
   LOCATION L0000530     VOLUME   403095.022 3760238.958 70.24
   LOCATION L0000531     VOLUME   403089.875 3760247.665 70.34
   LOCATION L0000532     VOLUME   403084.727 3760256.373 70.40
   LOCATION L0000533     VOLUME   403079.580 3760265.080 70.43
   LOCATION L0000534     VOLUME   403074.432 3760273.787 70.55
   LOCATION L0000535     VOLUME   403069.285 3760282.494 70.74
   LOCATION L0000536     VOLUME   403064.137 3760291.201 70.91
   LOCATION L0000537     VOLUME   403058.990 3760299.908 71.04
   LOCATION L0000538     VOLUME   403053.842 3760308.615 71.16
   LOCATION L0000539     VOLUME   403048.695 3760317.322 71.30
   LOCATION L0000540     VOLUME   403043.547 3760326.029 71.36
   LOCATION L0000541     VOLUME   403038.400 3760334.736 71.25
   LOCATION L0000542     VOLUME   403033.252 3760343.443 71.12
   LOCATION L0000543     VOLUME   403028.105 3760352.150 70.98
   LOCATION L0000544     VOLUME   403022.957 3760360.857 70.90
   LOCATION L0000545     VOLUME   403017.810 3760369.564 71.03
   LOCATION L0000546     VOLUME   403012.662 3760378.271 71.07
** End of LINE VOLUME Source ID = SLINE4
** Source Parameters **
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   SRCPARAM STCK1         6.93E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK2         6.93E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK3         6.93E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK4         6.93E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK5         6.93E-06     3.500   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000274     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000275     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000276     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000277     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000278     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000279     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000280     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000281     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000282     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000283     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000284     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000285     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000286     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000287     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000288     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000289     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000290     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000291     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000292     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000293     0.000000155      3.50      4.00      4.96
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   SRCPARAM L0000295     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000296     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000297     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000298     0.000000155      3.50      4.00      4.96
   SRCPARAM L0000299     0.000000155      3.50      4.00      4.96
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
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   SRCPARAM L0000301     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000302     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000303     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000304     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000305     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000306     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000307     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000308     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000309     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000310     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000311     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000312     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000313     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000314     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000315     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000316     0.00000008419      3.50      4.00      1.63
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   SRCPARAM L0000317     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000318     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000319     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000320     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000321     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000322     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000323     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000324     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000325     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000326     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000327     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000328     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000329     0.00000008419      3.50      4.00      1.63
   SRCPARAM L0000330     0.00000008419      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE3
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   SRCPARAM L0000332     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000333     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000334     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000335     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000336     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000337     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000338     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000339     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000340     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000341     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000342     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000343     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000344     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000345     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000346     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000347     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000348     0.00000004455      3.50      4.00      1.63
   SRCPARAM L0000349     0.00000004455      3.50      4.00      1.63
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   SRCPARAM L0000351     0.00000004455      3.50      4.00      1.63
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   SRCPARAM L0000365     0.00000004455      3.50      4.00      1.63
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SRCPARAM L0000389     0.00000004455      3.50      4.00      1.63
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** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67

   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67

   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
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BUILDHGT STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDWID STCK1	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK1	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK1	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK1	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK1	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK1	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK2	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK2	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK2	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK2	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK2	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK2	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK3	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK3	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK3	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK3	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK3	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK3	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK4	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK4	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK4	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK4	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK4	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK4	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK5	225.22	215.35	200.78	181.96	0.00	0.00
BUILDWID STCK5	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK5	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK5	225.22	215.35	200.78	181.96	0.00	0.00
BUILDWID STCK5	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK5	258.53	250.32	238.49	242.14	238.43	228.24

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BUILDLEN STCK1          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK1          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK1          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK1          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK1          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK1          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK2          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK2          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK2          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK2          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK2          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK2          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK3          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK3          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK3          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK3          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK3          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK3          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK4          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK4          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK4          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK4          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK4          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK4          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK5          236.22   251.37   258.88   258.53     0.00     0.00
BUILDLEN STCK5          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK5          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK5          236.22   251.37   258.88   258.53     0.00     0.00
BUILDLEN STCK5          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK5          181.96   157.62   128.68   150.61   185.06   213.89

XBADJ    STCK1          -17.27   -23.31   -28.65   -33.12   -36.58   -39.74
XBADJ    STCK1          -47.85   -54.51   -60.29   -78.33   -94.00  -106.80
XBADJ    STCK1         -116.36  -122.39  -124.70  -153.82  -181.26  -203.19
XBADJ    STCK1         -218.95  -228.05  -230.23  -225.41  -213.74  -198.76
XBADJ    STCK1         -194.29  -183.91  -167.95  -146.88  -121.36   -93.98
XBADJ    STCK1          -65.60   -35.23    -3.98     3.21    -3.81   -10.70

XBADJ    STCK2          -60.58   -75.64   -88.41   -98.49  -105.58  -110.27
XBADJ    STCK2         -117.77  -121.70  -122.70  -134.07  -141.37  -144.37
XBADJ    STCK2         -142.98  -137.25  -127.35  -144.18  -159.63  -170.22
XBADJ    STCK2         -175.64  -175.73  -170.47  -160.03  -144.74  -128.23
XBADJ    STCK2         -124.36  -116.73  -105.54   -91.15   -73.99   -56.41
XBADJ    STCK2          -38.98   -20.37    -1.33    -6.43   -25.44   -43.67

XBADJ    STCK3          -30.33   -39.46   -47.40   -53.90   -58.75   -62.64
```

XBADJ	STCK3	-70.78	-76.78	-81.21	-97.27	-110.38	-120.13
XBADJ	STCK3	-126.24	-128.51	-126.87	-151.98	-175.47	-193.62
XBADJ	STCK3	-205.89	-211.90	-211.48	-204.63	-191.56	-175.86
XBADJ	STCK3	-171.36	-161.65	-147.03	-127.94	-104.97	-80.64
XBADJ	STCK3	-55.73	-29.11	-1.81	1.37	-9.60	-20.27
XBADJ	STCK4	-83.50	-102.70	-118.79	-131.26	-139.74	-144.79
XBADJ	STCK4	-151.61	-153.82	-152.12	-159.90	-162.82	-160.80
XBADJ	STCK4	-153.89	-142.30	-126.39	-137.25	-146.92	-152.13
XBADJ	STCK4	-152.72	-148.66	-140.09	-127.27	-110.57	-93.70
XBADJ	STCK4	-90.53	-84.61	-76.12	-65.32	-52.53	-39.98
XBADJ	STCK4	-28.07	-15.32	-2.29	-13.37	-38.14	-61.76
XBADJ	STCK5	-95.76	-121.53	-143.60	-161.32	0.00	0.00
XBADJ	STCK5	-191.41	-194.55	-192.54	-198.78	-198.99	-193.14
XBADJ	STCK5	-181.43	-164.21	-142.00	-146.07	-148.70	-146.81
XBADJ	STCK5	-140.46	-129.84	-115.28	-97.21	0.00	0.00
XBADJ	STCK5	-50.73	-43.88	-35.70	-26.43	-16.36	-7.63
XBADJ	STCK5	-0.53	6.59	13.32	-4.54	-36.36	-67.08
YBADJ	STCK1	-34.28	-13.68	6.41	25.38	43.58	60.36
YBADJ	STCK1	78.51	88.73	96.25	100.84	102.37	100.79
YBADJ	STCK1	96.15	88.58	79.51	73.22	64.70	53.83
YBADJ	STCK1	34.28	13.68	-6.41	-25.38	-43.58	-60.36
YBADJ	STCK1	-78.51	-88.73	-96.25	-100.84	-102.37	-100.79
YBADJ	STCK1	-96.15	-88.58	-79.51	-73.22	-64.70	-53.83
YBADJ	STCK2	21.46	33.69	43.98	52.00	58.44	63.01
YBADJ	STCK2	68.88	67.10	63.27	57.53	50.04	41.03
YBADJ	STCK2	30.77	19.58	8.98	3.30	-2.49	-8.58
YBADJ	STCK2	-21.46	-33.69	-43.98	-52.00	-58.44	-63.01
YBADJ	STCK2	-68.88	-67.10	-63.27	-57.53	-50.04	-41.03
YBADJ	STCK2	-30.77	-19.58	-8.98	-3.30	2.49	8.58
YBADJ	STCK3	-15.34	2.71	19.75	35.26	49.70	62.53
YBADJ	STCK3	76.67	82.93	86.68	87.78	86.22	82.04
YBADJ	STCK3	75.37	66.40	56.61	50.29	42.44	32.91
YBADJ	STCK3	15.34	-2.71	-19.75	-35.26	-49.70	-62.53
YBADJ	STCK3	-76.67	-82.93	-86.68	-87.78	-86.22	-82.04
YBADJ	STCK3	-75.37	-66.40	-56.61	-50.29	-42.44	-32.91
YBADJ	STCK4	47.29	55.15	60.41	62.91	63.49	62.05
YBADJ	STCK4	61.94	54.39	45.18	34.61	22.98	10.65
YBADJ	STCK4	-2.00	-14.59	-25.55	-30.54	-34.60	-38.00
YBADJ	STCK4	-47.29	-55.15	-60.41	-62.91	-63.49	-62.05
YBADJ	STCK4	-61.94	-54.39	-45.18	-34.61	-22.98	-10.65
YBADJ	STCK4	2.00	14.59	25.55	30.54	34.60	38.00
YBADJ	STCK5	86.17	91.31	92.76	90.45	0.00	0.00
YBADJ	STCK5	70.77	56.17	39.86	22.35	4.16	-14.16
YBADJ	STCK5	-32.05	-48.97	-63.21	-70.34	-75.33	-78.42

```
   YBADJ    STCK5          -86.17   -91.31   -92.76   -90.45     0.00     0.00
   YBADJ    STCK5          -70.77   -56.17   -39.86   -22.35    -4.16    14.16
   YBADJ    STCK5           32.05    48.97    63.21    70.34    75.33    78.42

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "19391 Whitter Blvd BP 2YR.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC"
   PROFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL"
   SURFDATA 3166 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 58.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "19391 WHITTER BLVD BP 2YR.AD\PE00GALL.PLT" 31
   SUMMFILE "19391 Whitter Blvd BP 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            7 Warning Message(s)
 A Total of            0 Informational Message(s)
```

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


   ********   WARNING MESSAGES   ********
SO W320     408        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     409        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     410        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     411        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     412        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W186     896       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
ME W187     896       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                  ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2024 and 2025                  ***        17:23:51
                                                                                                        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   278 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
       TEMP_Sub - Meteorological data includes TEMP substitutions
```

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**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of:  DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    278 Source(s);       1 Source Group(s); and     450 Receptor(s)

               with:      5 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    273 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) =    58.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.0 MB of RAM.

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

**Detailed Error/Message File:   19391 Whitter Blvd BP 2YR.err
**File for Summary of Results:   19391 Whitter Blvd BP 2YR.sum

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                                  ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2024 and 2025                                  ***        17:23:51
                                                                                                                       PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***
```

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.69300E-05	403193.6	3759565.7	66.8	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.69300E-05	403256.0	3759598.7	67.4	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.69300E-05	403214.6	3759575.3	66.9	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.69300E-05	403285.5	3759616.8	67.6	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.69300E-05	403325.9	3759622.1	67.8	3.50	366.00	51.90	0.10	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000274	0	0.15500E-06	403372.2	3759656.1	68.9	3.50	4.00	4.96	YES	
L0000275	0	0.15500E-06	403365.9	3759650.2	68.3	3.50	4.00	4.96	YES	
L0000276	0	0.15500E-06	403360.2	3759643.8	68.1	3.50	4.00	4.96	YES	
L0000277	0	0.15500E-06	403354.0	3759637.9	68.2	3.50	4.00	4.96	YES	
L0000278	0	0.15500E-06	403346.9	3759633.2	68.1	3.50	4.00	4.96	YES	
L0000279	0	0.15500E-06	403339.3	3759629.0	68.0	3.50	4.00	4.96	YES	
L0000280	0	0.15500E-06	403331.8	3759624.9	67.9	3.50	4.00	4.96	YES	
L0000281	0	0.15500E-06	403324.3	3759620.8	67.8	3.50	4.00	4.96	YES	
L0000282	0	0.15500E-06	403316.8	3759616.6	67.7	3.50	4.00	4.96	YES	
L0000283	0	0.15500E-06	403309.3	3759612.4	67.7	3.50	4.00	4.96	YES	
L0000284	0	0.15500E-06	403301.8	3759608.1	67.6	3.50	4.00	4.96	YES	
L0000285	0	0.15500E-06	403294.3	3759603.9	67.6	3.50	4.00	4.96	YES	
L0000286	0	0.15500E-06	403286.9	3759599.7	67.5	3.50	4.00	4.96	YES	
L0000287	0	0.15500E-06	403279.4	3759595.5	67.5	3.50	4.00	4.96	YES	
L0000288	0	0.15500E-06	403271.9	3759591.2	67.4	3.50	4.00	4.96	YES	
L0000289	0	0.15500E-06	403264.4	3759587.0	67.4	3.50	4.00	4.96	YES	
L0000290	0	0.15500E-06	403257.0	3759582.8	67.3	3.50	4.00	4.96	YES	
L0000291	0	0.15500E-06	403249.5	3759578.5	67.2	3.50	4.00	4.96	YES	
L0000292	0	0.15500E-06	403242.0	3759574.3	67.1	3.50	4.00	4.96	YES	
L0000293	0	0.15500E-06	403234.5	3759570.1	66.9	3.50	4.00	4.96	YES	
L0000294	0	0.15500E-06	403227.1	3759565.8	66.8	3.50	4.00	4.96	YES	
L0000295	0	0.15500E-06	403219.6	3759561.6	66.8	3.50	4.00	4.96	YES	
L0000296	0	0.15500E-06	403212.1	3759557.4	66.8	3.50	4.00	4.96	YES	
L0000297	0	0.15500E-06	403204.6	3759553.2	66.6	3.50	4.00	4.96	YES	
L0000298	0	0.15500E-06	403197.1	3759548.9	66.3	3.50	4.00	4.96	YES	
L0000299	0	0.15500E-06	403189.7	3759544.7	66.0	3.50	4.00	4.96	YES	
L0000300	0	0.84190E-07	403385.3	3759659.8	70.0	3.50	4.00	1.63	YES	

L0000301	0	0.84190E-07	403389.5	3759652.4	70.0	3.50	4.00	1.63	YES
L0000302	0	0.84190E-07	403393.8	3759644.9	70.1	3.50	4.00	1.63	YES
L0000303	0	0.84190E-07	403398.1	3759637.4	70.4	3.50	4.00	1.63	YES
L0000304	0	0.84190E-07	403402.4	3759630.0	70.4	3.50	4.00	1.63	YES
L0000305	0	0.84190E-07	403406.6	3759622.5	70.3	3.50	4.00	1.63	YES
L0000306	0	0.84190E-07	403410.9	3759615.1	70.2	3.50	4.00	1.63	YES
L0000307	0	0.84190E-07	403415.2	3759607.6	70.1	3.50	4.00	1.63	YES
L0000308	0	0.84190E-07	403419.4	3759600.2	69.9	3.50	4.00	1.63	YES
L0000309	0	0.84190E-07	403423.7	3759592.7	69.8	3.50	4.00	1.63	YES
L0000310	0	0.84190E-07	403428.0	3759585.3	69.8	3.50	4.00	1.63	YES
L0000311	0	0.84190E-07	403432.2	3759577.8	69.7	3.50	4.00	1.63	YES
L0000312	0	0.84190E-07	403436.5	3759570.3	69.6	3.50	4.00	1.63	YES
L0000313	0	0.84190E-07	403440.8	3759562.9	69.5	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
L0000314	0	0.84190E-07	403445.0	3759555.4	69.4	3.50	4.00	1.63	YES	
L0000315	0	0.84190E-07	403449.3	3759548.0	69.3	3.50	4.00	1.63	YES	
L0000316	0	0.84190E-07	403453.6	3759540.5	69.2	3.50	4.00	1.63	YES	
L0000317	0	0.84190E-07	403457.8	3759533.1	69.0	3.50	4.00	1.63	YES	
L0000318	0	0.84190E-07	403462.1	3759525.6	68.9	3.50	4.00	1.63	YES	
L0000319	0	0.84190E-07	403466.4	3759518.2	68.8	3.50	4.00	1.63	YES	
L0000320	0	0.84190E-07	403470.6	3759510.7	68.8	3.50	4.00	1.63	YES	
L0000321	0	0.84190E-07	403474.9	3759503.2	68.8	3.50	4.00	1.63	YES	
L0000322	0	0.84190E-07	403479.2	3759495.8	68.7	3.50	4.00	1.63	YES	
L0000323	0	0.84190E-07	403483.4	3759488.3	68.6	3.50	4.00	1.63	YES	
L0000324	0	0.84190E-07	403487.7	3759480.9	68.5	3.50	4.00	1.63	YES	
L0000325	0	0.84190E-07	403492.0	3759473.4	68.4	3.50	4.00	1.63	YES	
L0000326	0	0.84190E-07	403496.2	3759466.0	68.3	3.50	4.00	1.63	YES	
L0000327	0	0.84190E-07	403500.5	3759458.5	68.2	3.50	4.00	1.63	YES	
L0000328	0	0.84190E-07	403504.8	3759451.1	68.1	3.50	4.00	1.63	YES	
L0000329	0	0.84190E-07	403510.8	3759446.6	68.1	3.50	4.00	1.63	YES	
L0000330	0	0.84190E-07	403518.5	3759450.3	68.3	3.50	4.00	1.63	YES	
L0000331	0	0.44550E-07	403529.0	3759452.0	68.5	3.50	4.00	1.63	YES	
L0000332	0	0.44550E-07	403533.3	3759444.6	68.4	3.50	4.00	1.63	YES	
L0000333	0	0.44550E-07	403537.5	3759437.1	68.3	3.50	4.00	1.63	YES	
L0000334	0	0.44550E-07	403541.8	3759429.7	68.2	3.50	4.00	1.63	YES	
L0000335	0	0.44550E-07	403546.1	3759422.2	68.1	3.50	4.00	1.63	YES	
L0000336	0	0.44550E-07	403550.4	3759414.8	68.0	3.50	4.00	1.63	YES	
L0000337	0	0.44550E-07	403554.7	3759407.4	67.9	3.50	4.00	1.63	YES	

L0000338	0	0.44550E-07	403559.0	3759399.9	67.9	3.50	4.00	1.63	YES
L0000339	0	0.44550E-07	403563.3	3759392.5	67.9	3.50	4.00	1.63	YES
L0000340	0	0.44550E-07	403567.7	3759385.1	67.8	3.50	4.00	1.63	YES
L0000341	0	0.44550E-07	403572.0	3759377.7	67.7	3.50	4.00	1.63	YES
L0000342	0	0.44550E-07	403576.4	3759370.3	67.5	3.50	4.00	1.63	YES
L0000343	0	0.44550E-07	403580.7	3759362.9	67.4	3.50	4.00	1.63	YES
L0000344	0	0.44550E-07	403585.1	3759355.5	67.3	3.50	4.00	1.63	YES
L0000345	0	0.44550E-07	403589.5	3759348.1	67.1	3.50	4.00	1.63	YES
L0000346	0	0.44550E-07	403593.8	3759340.7	66.9	3.50	4.00	1.63	YES
L0000347	0	0.44550E-07	403598.2	3759333.3	66.7	3.50	4.00	1.63	YES
L0000348	0	0.44550E-07	403602.6	3759325.9	66.5	3.50	4.00	1.63	YES
L0000349	0	0.44550E-07	403607.0	3759318.5	66.4	3.50	4.00	1.63	YES
L0000350	0	0.44550E-07	403611.4	3759311.1	66.3	3.50	4.00	1.63	YES
L0000351	0	0.44550E-07	403615.8	3759303.8	66.3	3.50	4.00	1.63	YES
L0000352	0	0.44550E-07	403620.2	3759296.4	66.2	3.50	4.00	1.63	YES
L0000353	0	0.44550E-07	403624.4	3759288.9	66.1	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000354	0	0.44550E-07	403628.7	3759281.4	65.9	3.50	4.00	1.63	YES	
L0000355	0	0.44550E-07	403632.9	3759274.0	65.9	3.50	4.00	1.63	YES	
L0000356	0	0.44550E-07	403637.2	3759266.5	65.8	3.50	4.00	1.63	YES	
L0000357	0	0.44550E-07	403641.4	3759259.0	65.7	3.50	4.00	1.63	YES	
L0000358	0	0.44550E-07	403645.7	3759251.6	65.5	3.50	4.00	1.63	YES	
L0000359	0	0.44550E-07	403649.9	3759244.1	65.4	3.50	4.00	1.63	YES	
L0000360	0	0.44550E-07	403654.2	3759236.6	65.2	3.50	4.00	1.63	YES	
L0000361	0	0.44550E-07	403658.4	3759229.2	65.1	3.50	4.00	1.63	YES	
L0000362	0	0.44550E-07	403662.7	3759221.7	65.0	3.50	4.00	1.63	YES	
L0000363	0	0.44550E-07	403667.0	3759214.3	65.1	3.50	4.00	1.63	YES	
L0000364	0	0.44550E-07	403671.4	3759206.9	65.2	3.50	4.00	1.63	YES	
L0000365	0	0.44550E-07	403675.8	3759199.5	65.3	3.50	4.00	1.63	YES	
L0000366	0	0.44550E-07	403680.2	3759192.2	65.3	3.50	4.00	1.63	YES	
L0000367	0	0.44550E-07	403684.6	3759184.8	65.2	3.50	4.00	1.63	YES	
L0000368	0	0.44550E-07	403689.1	3759177.4	65.1	3.50	4.00	1.63	YES	
L0000369	0	0.44550E-07	403693.6	3759170.1	65.0	3.50	4.00	1.63	YES	
L0000370	0	0.44550E-07	403697.8	3759162.7	65.0	3.50	4.00	1.63	YES	
L0000371	0	0.44550E-07	403700.4	3759154.5	64.9	3.50	4.00	1.63	YES	
L0000372	0	0.44550E-07	403700.3	3759146.1	64.8	3.50	4.00	1.63	YES	
L0000373	0	0.44550E-07	403696.3	3759138.5	64.6	3.50	4.00	1.63	YES	
L0000374	0	0.44550E-07	403689.5	3759133.2	64.3	3.50	4.00	1.63	YES	

L0000375	0	0.44550E-07	403681.5	3759131.4	64.0	3.50	4.00	1.63	YES
L0000376	0	0.44550E-07	403672.9	3759131.1	63.8	3.50	4.00	1.63	YES
L0000377	0	0.44550E-07	403664.3	3759130.8	63.5	3.50	4.00	1.63	YES
L0000378	0	0.44550E-07	403655.8	3759130.2	63.3	3.50	4.00	1.63	YES
L0000379	0	0.44550E-07	403647.2	3759129.4	63.0	3.50	4.00	1.63	YES
L0000380	0	0.44550E-07	403638.7	3759128.6	62.7	3.50	4.00	1.63	YES
L0000381	0	0.44550E-07	403630.2	3759127.3	62.3	3.50	4.00	1.63	YES
L0000382	0	0.44550E-07	403621.8	3759125.6	62.0	3.50	4.00	1.63	YES
L0000383	0	0.44550E-07	403613.3	3759124.0	61.7	3.50	4.00	1.63	YES
L0000384	0	0.44550E-07	403604.9	3759122.4	61.4	3.50	4.00	1.63	YES
L0000385	0	0.44550E-07	403596.5	3759120.7	61.1	3.50	4.00	1.63	YES
L0000386	0	0.44550E-07	403588.0	3759119.1	60.8	3.50	4.00	1.63	YES
L0000387	0	0.44550E-07	403579.6	3759117.5	60.6	3.50	4.00	1.63	YES
L0000388	0	0.44550E-07	403571.1	3759115.9	60.4	3.50	4.00	1.63	YES
L0000389	0	0.44550E-07	403562.7	3759114.2	60.3	3.50	4.00	1.63	YES
L0000390	0	0.44550E-07	403554.3	3759112.6	60.1	3.50	4.00	1.63	YES
L0000391	0	0.44550E-07	403545.8	3759111.0	60.0	3.50	4.00	1.63	YES
L0000392	0	0.44550E-07	403537.4	3759109.3	59.9	3.50	4.00	1.63	YES
L0000393	0	0.44550E-07	403529.0	3759107.7	59.7	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
L0000394	0	0.44550E-07	403520.5	3759106.1	59.6	3.50	4.00	1.63	YES	
L0000395	0	0.44550E-07	403512.1	3759104.5	59.5	3.50	4.00	1.63	YES	
L0000396	0	0.44550E-07	403503.7	3759102.8	59.4	3.50	4.00	1.63	YES	
L0000397	0	0.44550E-07	403495.2	3759101.2	59.3	3.50	4.00	1.63	YES	
L0000398	0	0.44550E-07	403486.8	3759099.6	59.1	3.50	4.00	1.63	YES	
L0000399	0	0.44550E-07	403478.4	3759097.9	58.9	3.50	4.00	1.63	YES	
L0000400	0	0.44550E-07	403469.9	3759096.3	58.8	3.50	4.00	1.63	YES	
L0000401	0	0.44550E-07	403461.5	3759094.7	58.5	3.50	4.00	1.63	YES	
L0000402	0	0.44550E-07	403453.1	3759093.1	58.3	3.50	4.00	1.63	YES	
L0000403	0	0.44550E-07	403444.6	3759091.4	58.0	3.50	4.00	1.63	YES	
L0000404	0	0.44550E-07	403436.2	3759089.8	57.8	3.50	4.00	1.63	YES	
L0000405	0	0.44550E-07	403427.8	3759088.2	57.5	3.50	4.00	1.63	YES	
L0000406	0	0.44550E-07	403419.3	3759086.5	57.4	3.50	4.00	1.63	YES	
L0000407	0	0.44550E-07	403410.9	3759084.9	57.3	3.50	4.00	1.63	YES	
L0000408	0	0.44550E-07	403402.5	3759083.3	57.2	3.50	4.00	1.63	YES	
L0000409	0	0.44550E-07	403394.0	3759081.6	57.1	3.50	4.00	1.63	YES	
L0000410	0	0.44550E-07	403385.6	3759080.0	57.1	3.50	4.00	1.63	YES	
L0000411	0	0.44550E-07	403377.1	3759078.4	57.0	3.50	4.00	1.63	YES	

L0000412	0	0.44550E-07	403368.7	3759076.8	56.9	3.50	4.00	1.63	YES
L0000413	0	0.44550E-07	403360.3	3759075.1	56.9	3.50	4.00	1.63	YES
L0000414	0	0.44550E-07	403351.8	3759073.5	56.8	3.50	4.00	1.63	YES
L0000415	0	0.44550E-07	403343.4	3759071.9	56.8	3.50	4.00	1.63	YES
L0000416	0	0.44550E-07	403335.0	3759070.2	56.7	3.50	4.00	1.63	YES
L0000417	0	0.44550E-07	403326.5	3759068.6	56.6	3.50	4.00	1.63	YES
L0000418	0	0.44550E-07	403318.1	3759067.0	56.6	3.50	4.00	1.63	YES
L0000419	0	0.44550E-07	403309.7	3759065.4	56.4	3.50	4.00	1.63	YES
L0000420	0	0.44550E-07	403301.2	3759063.7	56.2	3.50	4.00	1.63	YES
L0000421	0	0.44550E-07	403292.8	3759062.1	56.0	3.50	4.00	1.63	YES
L0000422	0	0.44550E-07	403284.4	3759060.5	55.7	3.50	4.00	1.63	YES
L0000423	0	0.44550E-07	403275.9	3759058.8	55.4	3.50	4.00	1.63	YES
L0000424	0	0.44550E-07	403267.5	3759057.2	55.1	3.50	4.00	1.63	YES
L0000425	0	0.44550E-07	403259.1	3759055.6	54.9	3.50	4.00	1.63	YES
L0000426	0	0.44550E-07	403250.6	3759053.9	54.8	3.50	4.00	1.63	YES
L0000427	0	0.44550E-07	403242.2	3759052.3	54.5	3.50	4.00	1.63	YES
L0000428	0	0.44550E-07	403233.8	3759050.7	54.5	3.50	4.00	1.63	YES
L0000429	0	0.44550E-07	403225.3	3759049.1	54.5	3.50	4.00	1.63	YES
L0000430	0	0.44550E-07	403216.9	3759047.4	54.4	3.50	4.00	1.63	YES
L0000431	0	0.44550E-07	403208.5	3759045.8	54.2	3.50	4.00	1.63	YES
L0000432	0	0.44550E-07	403200.0	3759044.2	54.0	3.50	4.00	1.63	YES
L0000433	0	0.44550E-07	403191.6	3759042.5	53.8	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
L0000434	0	0.44550E-07	403183.1	3759040.9	53.5	3.50	4.00	1.63	YES	
L0000435	0	0.44550E-07	403174.7	3759039.3	53.3	3.50	4.00	1.63	YES	
L0000436	0	0.44550E-07	403166.3	3759037.7	53.0	3.50	4.00	1.63	YES	
L0000437	0	0.44550E-07	403157.8	3759036.0	52.8	3.50	4.00	1.63	YES	
L0000438	0	0.44550E-07	403149.4	3759034.4	52.6	3.50	4.00	1.63	YES	
L0000439	0	0.44550E-07	403141.0	3759032.8	52.4	3.50	4.00	1.63	YES	
L0000440	0	0.44550E-07	403132.5	3759031.1	52.2	3.50	4.00	1.63	YES	
L0000441	0	0.52920E-07	403545.9	3759463.3	69.3	3.50	4.70	1.63	YES	
L0000442	0	0.52920E-07	403545.8	3759471.8	69.5	3.50	4.70	1.63	YES	
L0000443	0	0.52920E-07	403542.3	3759481.3	69.7	3.50	4.70	1.63	YES	
L0000444	0	0.52920E-07	403538.2	3759490.5	69.9	3.50	4.70	1.63	YES	
L0000445	0	0.52920E-07	403533.2	3759499.3	70.1	3.50	4.70	1.63	YES	
L0000446	0	0.52920E-07	403528.2	3759508.1	70.2	3.50	4.70	1.63	YES	
L0000447	0	0.52920E-07	403523.1	3759516.9	70.1	3.50	4.70	1.63	YES	
L0000448	0	0.52920E-07	403518.1	3759525.6	70.3	3.50	4.70	1.63	YES	

L0000449	0	0.52920E-07	403513.1	3759534.4	70.5	3.50	4.70	1.63	YES
L0000450	0	0.52920E-07	403508.1	3759543.2	70.8	3.50	4.70	1.63	YES
L0000451	0	0.52920E-07	403503.0	3759552.0	71.1	3.50	4.70	1.63	YES
L0000452	0	0.52920E-07	403498.0	3759560.8	71.1	3.50	4.70	1.63	YES
L0000453	0	0.52920E-07	403493.0	3759569.5	71.0	3.50	4.70	1.63	YES
L0000454	0	0.52920E-07	403488.0	3759578.3	71.0	3.50	4.70	1.63	YES
L0000455	0	0.52920E-07	403483.0	3759587.1	71.0	3.50	4.70	1.63	YES
L0000456	0	0.52920E-07	403478.0	3759595.9	71.1	3.50	4.70	1.63	YES
L0000457	0	0.52920E-07	403473.0	3759604.7	71.2	3.50	4.70	1.63	YES
L0000458	0	0.52920E-07	403468.0	3759613.5	71.4	3.50	4.70	1.63	YES
L0000459	0	0.52920E-07	403463.0	3759622.3	71.6	3.50	4.70	1.63	YES
L0000460	0	0.52920E-07	403458.0	3759631.1	71.8	3.50	4.70	1.63	YES
L0000461	0	0.52920E-07	403453.0	3759639.9	71.8	3.50	4.70	1.63	YES
L0000462	0	0.52920E-07	403447.6	3759648.4	71.9	3.50	4.70	1.63	YES
L0000463	0	0.52920E-07	403442.1	3759657.0	71.9	3.50	4.70	1.63	YES
L0000464	0	0.52920E-07	403436.7	3759665.5	72.0	3.50	4.70	1.63	YES
L0000465	0	0.52920E-07	403431.3	3759674.0	72.2	3.50	4.70	1.63	YES
L0000466	0	0.52920E-07	403425.8	3759682.6	72.3	3.50	4.70	1.63	YES
L0000467	0	0.52920E-07	403420.4	3759691.1	72.3	3.50	4.70	1.63	YES
L0000468	0	0.52920E-07	403415.0	3759699.6	72.3	3.50	4.70	1.63	YES
L0000469	0	0.52920E-07	403409.6	3759708.2	72.4	3.50	4.70	1.63	YES
L0000470	0	0.52920E-07	403404.1	3759716.7	72.5	3.50	4.70	1.63	YES
L0000471	0	0.52920E-07	403398.7	3759725.2	72.5	3.50	4.70	1.63	YES
L0000472	0	0.52920E-07	403393.6	3759733.9	72.5	3.50	4.70	1.63	YES
L0000473	0	0.52920E-07	403388.4	3759742.7	72.4	3.50	4.70	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
L0000474	0	0.52920E-07	403383.3	3759751.4	72.4	3.50	4.70	1.63	YES	
L0000475	0	0.52920E-07	403378.1	3759760.1	72.3	3.50	4.70	1.63	YES	
L0000476	0	0.52920E-07	403373.0	3759768.8	72.2	3.50	4.70	1.63	YES	
L0000477	0	0.52920E-07	403367.8	3759777.5	72.1	3.50	4.70	1.63	YES	
L0000478	0	0.52920E-07	403362.7	3759786.2	72.1	3.50	4.70	1.63	YES	
L0000479	0	0.52920E-07	403357.5	3759794.9	72.0	3.50	4.70	1.63	YES	
L0000480	0	0.52920E-07	403352.4	3759803.6	72.0	3.50	4.70	1.63	YES	
L0000481	0	0.52920E-07	403347.2	3759812.3	72.0	3.50	4.70	1.63	YES	
L0000482	0	0.52920E-07	403342.1	3759821.0	71.9	3.50	4.70	1.63	YES	
L0000483	0	0.52920E-07	403337.0	3759829.7	71.9	3.50	4.70	1.63	YES	
L0000484	0	0.52920E-07	403331.8	3759838.4	71.8	3.50	4.70	1.63	YES	
L0000485	0	0.52920E-07	403326.7	3759847.1	71.8	3.50	4.70	1.63	YES	

L0000486	0	0.52920E-07	403321.5	3759855.8	71.7	3.50	4.70	1.63	YES
L0000487	0	0.52920E-07	403316.4	3759864.6	71.7	3.50	4.70	1.63	YES
L0000488	0	0.52920E-07	403311.2	3759873.3	71.5	3.50	4.70	1.63	YES
L0000489	0	0.52920E-07	403306.1	3759882.0	71.4	3.50	4.70	1.63	YES
L0000490	0	0.52920E-07	403300.9	3759890.7	71.4	3.50	4.70	1.63	YES
L0000491	0	0.52920E-07	403295.8	3759899.4	71.3	3.50	4.70	1.63	YES
L0000492	0	0.52920E-07	403290.6	3759908.1	71.3	3.50	4.70	1.63	YES
L0000493	0	0.52920E-07	403285.5	3759916.8	71.3	3.50	4.70	1.63	YES
L0000494	0	0.52920E-07	403280.3	3759925.5	71.2	3.50	4.70	1.63	YES
L0000495	0	0.52920E-07	403275.2	3759934.2	71.2	3.50	4.70	1.63	YES
L0000496	0	0.52920E-07	403270.0	3759942.9	71.2	3.50	4.70	1.63	YES
L0000497	0	0.52920E-07	403264.9	3759951.6	71.2	3.50	4.70	1.63	YES
L0000498	0	0.52920E-07	403259.7	3759960.3	71.1	3.50	4.70	1.63	YES
L0000499	0	0.52920E-07	403254.6	3759969.0	71.0	3.50	4.70	1.63	YES
L0000500	0	0.52920E-07	403249.4	3759977.7	71.0	3.50	4.70	1.63	YES
L0000501	0	0.52920E-07	403244.3	3759986.5	71.0	3.50	4.70	1.63	YES
L0000502	0	0.52920E-07	403239.2	3759995.2	70.9	3.50	4.70	1.63	YES
L0000503	0	0.52920E-07	403234.0	3760003.9	70.9	3.50	4.70	1.63	YES
L0000504	0	0.52920E-07	403228.9	3760012.6	70.8	3.50	4.70	1.63	YES
L0000505	0	0.52920E-07	403223.7	3760021.3	70.8	3.50	4.70	1.63	YES
L0000506	0	0.52920E-07	403218.6	3760030.0	70.8	3.50	4.70	1.63	YES
L0000507	0	0.52920E-07	403213.4	3760038.7	70.7	3.50	4.70	1.63	YES
L0000508	0	0.52920E-07	403208.3	3760047.4	70.6	3.50	4.70	1.63	YES
L0000509	0	0.52920E-07	403203.1	3760056.1	70.5	3.50	4.70	1.63	YES
L0000510	0	0.52920E-07	403198.0	3760064.8	70.5	3.50	4.70	1.63	YES
L0000511	0	0.52920E-07	403192.8	3760073.5	70.5	3.50	4.70	1.63	YES
L0000512	0	0.52920E-07	403187.7	3760082.2	70.5	3.50	4.70	1.63	YES
L0000513	0	0.52920E-07	403182.5	3760090.9	70.5	3.50	4.70	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
L0000514	0	0.52920E-07	403177.4	3760099.6	70.4	3.50	4.70	1.63	YES	
L0000515	0	0.52920E-07	403172.2	3760108.4	70.4	3.50	4.70	1.63	YES	
L0000516	0	0.52920E-07	403167.1	3760117.1	70.5	3.50	4.70	1.63	YES	
L0000517	0	0.52920E-07	403161.9	3760125.8	70.5	3.50	4.70	1.63	YES	
L0000518	0	0.52920E-07	403156.8	3760134.5	70.4	3.50	4.70	1.63	YES	
L0000519	0	0.52920E-07	403151.6	3760143.2	70.3	3.50	4.70	1.63	YES	
L0000520	0	0.52920E-07	403146.5	3760151.9	70.3	3.50	4.70	1.63	YES	
L0000521	0	0.52920E-07	403141.3	3760160.6	70.3	3.50	4.70	1.63	YES	
L0000522	0	0.52920E-07	403136.2	3760169.3	70.3	3.50	4.70	1.63	YES	

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L0000523         0   0.52920E-07  403131.1 3760178.0    70.2     3.50     4.70     1.63     YES
L0000524         0   0.52920E-07  403125.9 3760186.7    70.1     3.50     4.70     1.63     YES
L0000525         0   0.52920E-07  403120.8 3760195.4    70.0     3.50     4.70     1.63     YES
L0000526         0   0.52920E-07  403115.6 3760204.1    70.0     3.50     4.70     1.63     YES
L0000527         0   0.52920E-07  403110.5 3760212.8    70.1     3.50     4.70     1.63     YES
L0000528         0   0.52920E-07  403105.3 3760221.5    70.1     3.50     4.70     1.63     YES
L0000529         0   0.52920E-07  403100.2 3760230.3    70.2     3.50     4.70     1.63     YES
L0000530         0   0.52920E-07  403095.0 3760239.0    70.2     3.50     4.70     1.63     YES
L0000531         0   0.52920E-07  403089.9 3760247.7    70.3     3.50     4.70     1.63     YES
L0000532         0   0.52920E-07  403084.7 3760256.4    70.4     3.50     4.70     1.63     YES
L0000533         0   0.52920E-07  403079.6 3760265.1    70.4     3.50     4.70     1.63     YES
L0000534         0   0.52920E-07  403074.4 3760273.8    70.5     3.50     4.70     1.63     YES
L0000535         0   0.52920E-07  403069.3 3760282.5    70.7     3.50     4.70     1.63     YES
L0000536         0   0.52920E-07  403064.1 3760291.2    70.9     3.50     4.70     1.63     YES
L0000537         0   0.52920E-07  403059.0 3760299.9    71.0     3.50     4.70     1.63     YES
L0000538         0   0.52920E-07  403053.8 3760308.6    71.2     3.50     4.70     1.63     YES
L0000539         0   0.52920E-07  403048.7 3760317.3    71.3     3.50     4.70     1.63     YES
L0000540         0   0.52920E-07  403043.5 3760326.0    71.4     3.50     4.70     1.63     YES
L0000541         0   0.52920E-07  403038.4 3760334.7    71.2     3.50     4.70     1.63     YES
L0000542         0   0.52920E-07  403033.3 3760343.4    71.1     3.50     4.70     1.63     YES
L0000543         0   0.52920E-07  403028.1 3760352.1    71.0     3.50     4.70     1.63     YES
L0000544         0   0.52920E-07  403023.0 3760360.9    70.9     3.50     4.70     1.63     YES
L0000545         0   0.52920E-07  403017.8 3760369.6    71.0     3.50     4.70     1.63     YES
L0000546         0   0.52920E-07  403012.7 3760378.3    71.1     3.50     4.70     1.63     YES

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                    ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2024 and 2025                    ***        17:23:51
                                                                                                          PAGE  10
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                        SOURCE IDs
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 ALL        STCK1       , STCK2       , STCK3       , STCK4       , STCK5       , L0000274    , L0000275    , L0000276    ,
            L0000277    , L0000278    , L0000279    , L0000280    , L0000281    , L0000282    , L0000283    , L0000284    ,
            L0000285    , L0000286    , L0000287    , L0000288    , L0000289    , L0000290    , L0000291    , L0000292    ,
            L0000293    , L0000294    , L0000295    , L0000296    , L0000297    , L0000298    , L0000299    , L0000300    ,
            L0000301    , L0000302    , L0000303    , L0000304    , L0000305    , L0000306    , L0000307    , L0000308    ,
            L0000309    , L0000310    , L0000311    , L0000312    , L0000313    , L0000314    , L0000315    , L0000316    ,
            L0000317    , L0000318    , L0000319    , L0000320    , L0000321    , L0000322    , L0000323    , L0000324    ,
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            L0000325    , L0000326    , L0000327    , L0000328    , L0000329    , L0000330    , L0000331    , L0000332    ,
            L0000333    , L0000334    , L0000335    , L0000336    , L0000337    , L0000338    , L0000339    , L0000340    ,
            L0000341    , L0000342    , L0000343    , L0000344    , L0000345    , L0000346    , L0000347    , L0000348    ,
            L0000349    , L0000350    , L0000351    , L0000352    , L0000353    , L0000354    , L0000355    , L0000356    ,
            L0000357    , L0000358    , L0000359    , L0000360    , L0000361    , L0000362    , L0000363    , L0000364    ,
            L0000365    , L0000366    , L0000367    , L0000368    , L0000369    , L0000370    , L0000371    , L0000372    ,
            L0000373    , L0000374    , L0000375    , L0000376    , L0000377    , L0000378    , L0000379    , L0000380    ,
            L0000381    , L0000382    , L0000383    , L0000384    , L0000385    , L0000386    , L0000387    , L0000388    ,
            L0000389    , L0000390    , L0000391    , L0000392    , L0000393    , L0000394    , L0000395    , L0000396    ,
            L0000397    , L0000398    , L0000399    , L0000400    , L0000401    , L0000402    , L0000403    , L0000404    ,
            L0000405    , L0000406    , L0000407    , L0000408    , L0000409    , L0000410    , L0000411    , L0000412    ,
            L0000413    , L0000414    , L0000415    , L0000416    , L0000417    , L0000418    , L0000419    , L0000420    ,
            L0000421    , L0000422    , L0000423    , L0000424    , L0000425    , L0000426    , L0000427    , L0000428    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

```
            L0000429    , L0000430    , L0000431    , L0000432    , L0000433    , L0000434    , L0000435    , L0000436    ,
            L0000437    , L0000438    , L0000439    , L0000440    , L0000441    , L0000442    , L0000443    , L0000444    ,
            L0000445    , L0000446    , L0000447    , L0000448    , L0000449    , L0000450    , L0000451    , L0000452    ,
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            L0000461    , L0000462    , L0000463    , L0000464    , L0000465    , L0000466    , L0000467    , L0000468    ,
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            L0000477    , L0000478    , L0000479    , L0000480    , L0000481    , L0000482    , L0000483    , L0000484    ,
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L0000485 , L0000486 , L0000487 , L0000488 , L0000489 , L0000490 , L0000491 , L0000492 ,

L0000493 , L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 ,

L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 ,

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L0000533 , L0000534 , L0000535 , L0000536 , L0000537 , L0000538 , L0000539 , L0000540 ,

L0000541 , L0000542 , L0000543 , L0000544 , L0000545 , L0000546 ,

*** 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 , L0000274 , L0000275 , L0000276 ,

L0000277 , L0000278 , L0000279 , L0000280 , L0000281 , L0000282 , L0000283 , L0000284 ,

L0000285 , L0000286 , L0000287 , L0000288 , L0000289 , L0000290 , L0000291 , L0000292 ,

L0000293 , L0000294 , L0000295 , L0000296 , L0000297 , L0000298 , L0000299 , L0000300 ,

L0000301 , L0000302 , L0000303 , L0000304 , L0000305 , L0000306 , L0000307 , L0000308 ,

L0000309 , L0000310 , L0000311 , L0000312 , L0000313 , L0000314 , L0000315 , L0000316 ,

L0000317 , L0000318 , L0000319 , L0000320 , L0000321 , L0000322 , L0000323 , L0000324 ,

L0000325 , L0000326 , L0000327 , L0000328 , L0000329 , L0000330 , L0000331 , L0000332 ,

L0000333 , L0000334 , L0000335 , L0000336 , L0000337 , L0000338 , L0000339 , L0000340 ,

L0000341 , L0000342 , L0000343 , L0000344 , L0000345 , L0000346 , L0000347 , L0000348 ,

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L0000373 , L0000374 , L0000375 , L0000376 , L0000377 , L0000378 , L0000379 , L0000380 ,

L0000381 , L0000382 , L0000383 , L0000384 , L0000385 , L0000386 , L0000387 , L0000388 ,

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L0000405 , L0000406 , L0000407 , L0000408 , L0000409 , L0000410 , L0000411 , L0000412 ,

L0000413 , L0000414 , L0000415 , L0000416 , L0000417 , L0000418 , L0000419 , L0000420 ,

L0000421 , L0000422 , L0000423 , L0000424 , L0000425 , L0000426 , L0000427 , L0000428 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0000429 , L0000430 , L0000431 , L0000432 , L0000433 , L0000434 , L0000435 , L0000436 ,

L0000437 , L0000438 , L0000439 , L0000440 , L0000441 , L0000442 , L0000443 , L0000444 ,

L0000445 , L0000446 , L0000447 , L0000448 , L0000449 , L0000450 , L0000451 , L0000452 ,

L0000453 , L0000454 , L0000455 , L0000456 , L0000457 , L0000458 , L0000459 , L0000460 ,

L0000461 , L0000462 , L0000463 , L0000464 , L0000465 , L0000466 , L0000467 , L0000468 ,

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L0000493 , L0000494 , L0000495 , L0000496 , L0000497 , L0000498 , L0000499 , L0000500 ,

L0000501 , L0000502 , L0000503 , L0000504 , L0000505 , L0000506 , L0000507 , L0000508 ,

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-17.3,	-34.3,	2	10.7,	215.4,	251.4,	-23.3,	-13.7,
3	10.7,	200.8,	258.9,	-28.7,	6.4,	4	10.7,	182.0,	258.5,	-33.1,	25.4,
5	10.7,	157.6,	250.3,	-36.6,	43.6,	6	10.7,	128.7,	238.5,	-39.7,	60.4,
7	10.7,	150.6,	242.1,	-47.8,	78.5,	8	10.7,	185.1,	238.4,	-54.5,	88.7,
9	10.7,	213.9,	228.2,	-60.3,	96.2,	10	10.7,	236.2,	225.2,	-78.3,	100.8,
11	10.7,	251.4,	215.4,	-94.0,	102.4,	12	10.7,	258.9,	200.8,	-106.8,	100.8,
13	10.7,	258.5,	182.0,	-116.4,	96.1,	14	10.7,	250.3,	157.6,	-122.4,	88.6,
15	10.7,	238.5,	128.7,	-124.7,	79.5,	16	10.7,	242.1,	150.6,	-153.8,	73.2,
17	10.7,	238.4,	185.1,	-181.3,	64.7,	18	10.7,	228.2,	213.9,	-203.2,	53.8,
19	10.7,	225.2,	236.2,	-219.0,	34.3,	20	10.7,	215.4,	251.4,	-228.1,	13.7,
21	10.7,	200.8,	258.9,	-230.2,	-6.4,	22	10.7,	182.0,	258.5,	-225.4,	-25.4,
23	10.7,	157.6,	250.3,	-213.7,	-43.6,	24	10.7,	128.7,	238.5,	-198.8,	-60.4,
25	10.7,	150.6,	242.1,	-194.3,	-78.5,	26	10.7,	185.1,	238.4,	-183.9,	-88.7,
27	10.7,	213.9,	228.2,	-168.0,	-96.2,	28	10.7,	236.2,	225.2,	-146.9,	-100.8,
29	10.7,	251.4,	215.4,	-121.4,	-102.4,	30	10.7,	258.9,	200.8,	-94.0,	-100.8,
31	10.7,	258.5,	182.0,	-65.6,	-96.1,	32	10.7,	250.3,	157.6,	-35.2,	-88.6,
33	10.7,	238.5,	128.7,	-4.0,	-79.5,	34	10.7,	242.1,	150.6,	3.2,	-73.2,
35	10.7,	238.4,	185.1,	-3.8,	-64.7,	36	10.7,	228.2,	213.9,	-10.7,	-53.8,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-60.6,	21.5,	2	10.7,	215.4,	251.4,	-75.6,	33.7,
3	10.7,	200.8,	258.9,	-88.4,	44.0,	4	10.7,	182.0,	258.5,	-98.5,	52.0,
5	10.7,	157.6,	250.3,	-105.6,	58.4,	6	10.7,	128.7,	238.5,	-110.3,	63.0,
7	10.7,	150.6,	242.1,	-117.8,	68.9,	8	10.7,	185.1,	238.4,	-121.7,	67.1,
9	10.7,	213.9,	228.2,	-122.7,	63.3,	10	10.7,	236.2,	225.2,	-134.1,	57.5,
11	10.7,	251.4,	215.4,	-141.4,	50.0,	12	10.7,	258.9,	200.8,	-144.4,	41.0,
13	10.7,	258.5,	182.0,	-143.0,	30.8,	14	10.7,	250.3,	157.6,	-137.2,	19.6,
15	10.7,	238.5,	128.7,	-127.3,	9.0,	16	10.7,	242.1,	150.6,	-144.2,	3.3,
17	10.7,	238.4,	185.1,	-159.6,	-2.5,	18	10.7,	228.2,	213.9,	-170.2,	-8.6,

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  19   10.7,  225.2,  236.2, -175.6,  -21.5,     20   10.7,  215.4,  251.4, -175.7,  -33.7,
  21   10.7,  200.8,  258.9, -170.5,  -44.0,     22   10.7,  182.0,  258.5, -160.0,  -52.0,
  23   10.7,  157.6,  250.3, -144.7,  -58.4,     24   10.7,  128.7,  238.5, -128.2,  -63.0,
  25   10.7,  150.6,  242.1, -124.4,  -68.9,     26   10.7,  185.1,  238.4, -116.7,  -67.1,
  27   10.7,  213.9,  228.2, -105.5,  -63.3,     28   10.7,  236.2,  225.2,  -91.1,  -57.5,
  29   10.7,  251.4,  215.4,  -74.0,  -50.0,     30   10.7,  258.9,  200.8,  -56.4,  -41.0,
  31   10.7,  258.5,  182.0,  -39.0,  -30.8,     32   10.7,  250.3,  157.6,  -20.4,  -19.6,
  33   10.7,  238.5,  128.7,   -1.3,   -9.0,     34   10.7,  242.1,  150.6,   -6.4,   -3.3,
  35   10.7,  238.4,  185.1,  -25.4,    2.5,     36   10.7,  228.2,  213.9,  -43.7,    8.6,


SOURCE ID: STCK3
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   10.7,  225.2,  236.2,  -30.3,  -15.3,      2   10.7,  215.4,  251.4,  -39.5,    2.7,
   3   10.7,  200.8,  258.9,  -47.4,   19.8,      4   10.7,  182.0,  258.5,  -53.9,   35.3,
   5   10.7,  157.6,  250.3,  -58.8,   49.7,      6   10.7,  128.7,  238.5,  -62.6,   62.5,
   7   10.7,  150.6,  242.1,  -70.8,   76.7,      8   10.7,  185.1,  238.4,  -76.8,   82.9,
   9   10.7,  213.9,  228.2,  -81.2,   86.7,     10   10.7,  236.2,  225.2,  -97.3,   87.8,
  11   10.7,  251.4,  215.4, -110.4,   86.2,     12   10.7,  258.9,  200.8, -120.1,   82.0,
  13   10.7,  258.5,  182.0, -126.2,   75.4,     14   10.7,  250.3,  157.6, -128.5,   66.4,
  15   10.7,  238.5,  128.7, -126.9,   56.6,     16   10.7,  242.1,  150.6, -152.0,   50.3,
  17   10.7,  238.4,  185.1, -175.5,   42.4,     18   10.7,  228.2,  213.9, -193.6,   32.9,
  19   10.7,  225.2,  236.2, -205.9,   15.3,     20   10.7,  215.4,  251.4, -211.9,   -2.7,
  21   10.7,  200.8,  258.9, -211.5,  -19.8,     22   10.7,  182.0,  258.5, -204.6,  -35.3,
  23   10.7,  157.6,  250.3, -191.6,  -49.7,     24   10.7,  128.7,  238.5, -175.9,  -62.5,
  25   10.7,  150.6,  242.1, -171.4,  -76.7,     26   10.7,  185.1,  238.4, -161.7,  -82.9,
  27   10.7,  213.9,  228.2, -147.0,  -86.7,     28   10.7,  236.2,  225.2, -127.9,  -87.8,
  29   10.7,  251.4,  215.4, -105.0,  -86.2,     30   10.7,  258.9,  200.8,  -80.6,  -82.0,
  31   10.7,  258.5,  182.0,  -55.7,  -75.4,     32   10.7,  250.3,  157.6,  -29.1,  -66.4,
  33   10.7,  238.5,  128.7,   -1.8,  -56.6,     34   10.7,  242.1,  150.6,    1.4,  -50.3,
  35   10.7,  238.4,  185.1,   -9.6,  -42.4,     36   10.7,  228.2,  213.9,  -20.3,  -32.9,


SOURCE ID: STCK4
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   10.7,  225.2,  236.2,  -83.5,   47.3,      2   10.7,  215.4,  251.4, -102.7,   55.1,
   3   10.7,  200.8,  258.9, -118.8,   60.4,      4   10.7,  182.0,  258.5, -131.3,   62.9,
   5   10.7,  157.6,  250.3, -139.7,   63.5,      6   10.7,  128.7,  238.5, -144.8,   62.0,
   7   10.7,  150.6,  242.1, -151.6,   61.9,      8   10.7,  185.1,  238.4, -153.8,   54.4,
   9   10.7,  213.9,  228.2, -152.1,   45.2,     10   10.7,  236.2,  225.2, -159.9,   34.6,
  11   10.7,  251.4,  215.4, -162.8,   23.0,     12   10.7,  258.9,  200.8, -160.8,   10.7,
  13   10.7,  258.5,  182.0, -153.9,   -2.0,     14   10.7,  250.3,  157.6, -142.3,  -14.6,
  15   10.7,  238.5,  128.7, -126.4,  -25.6,     16   10.7,  242.1,  150.6, -137.2,  -30.5,
  17   10.7,  238.4,  185.1, -146.9,  -34.6,     18   10.7,  228.2,  213.9, -152.1,  -38.0,
  19   10.7,  225.2,  236.2, -152.7,  -47.3,     20   10.7,  215.4,  251.4, -148.7,  -55.1,
  21   10.7,  200.8,  258.9, -140.1,  -60.4,     22   10.7,  182.0,  258.5, -127.3,  -62.9,
  23   10.7,  157.6,  250.3, -110.6,  -63.5,     24   10.7,  128.7,  238.5,  -93.7,  -62.0,
  25   10.7,  150.6,  242.1,  -90.5,  -61.9,     26   10.7,  185.1,  238.4,  -84.6,  -54.4,
  27   10.7,  213.9,  228.2,  -76.1,  -45.2,     28   10.7,  236.2,  225.2,  -65.3,  -34.6,
  29   10.7,  251.4,  215.4,  -52.5,  -23.0,     30   10.7,  258.9,  200.8,  -40.0,  -10.7,
  31   10.7,  258.5,  182.0,  -28.1,    2.0,     32   10.7,  250.3,  157.6,  -15.3,   14.6,
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33	10.7,	238.5,	128.7,	-2.3,	25.6,	34	10.7,	242.1,	150.6,	-13.4,	30.5,
35	10.7,	238.4,	185.1,	-38.1,	34.6,	36	10.7,	228.2,	213.9,	-61.8,	38.0,

*** 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	10.7,	225.2,	236.2,	-95.8,	86.2,	2	10.7,	215.4,	251.4,	-121.5,	91.3,
3	10.7,	200.8,	258.9,	-143.6,	92.8,	4	10.7,	182.0,	258.5,	-161.3,	90.5,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	10.7,	150.6,	242.1,	-191.4,	70.8,	8	10.7,	185.1,	238.4,	-194.6,	56.2,
9	10.7,	213.9,	228.2,	-192.5,	39.9,	10	10.7,	236.2,	225.2,	-198.8,	22.4,
11	10.7,	251.4,	215.4,	-199.0,	4.2,	12	10.7,	258.9,	200.8,	-193.1,	-14.2,
13	10.7,	258.5,	182.0,	-181.4,	-32.0,	14	10.7,	250.3,	157.6,	-164.2,	-49.0,
15	10.7,	238.5,	128.7,	-142.0,	-63.2,	16	10.7,	242.1,	150.6,	-146.1,	-70.3,
17	10.7,	238.4,	185.1,	-148.7,	-75.3,	18	10.7,	228.2,	213.9,	-146.8,	-78.4,
19	10.7,	225.2,	236.2,	-140.5,	-86.2,	20	10.7,	215.4,	251.4,	-129.8,	-91.3,
21	10.7,	200.8,	258.9,	-115.3,	-92.8,	22	10.7,	182.0,	258.5,	-97.2,	-90.5,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	10.7,	150.6,	242.1,	-50.7,	-70.8,	26	10.7,	185.1,	238.4,	-43.9,	-56.2,
27	10.7,	213.9,	228.2,	-35.7,	-39.9,	28	10.7,	236.2,	225.2,	-26.4,	-22.4,
29	10.7,	251.4,	215.4,	-16.4,	-4.2,	30	10.7,	258.9,	200.8,	-7.6,	14.2,
31	10.7,	258.5,	182.0,	-0.5,	32.0,	32	10.7,	250.3,	157.6,	6.6,	49.0,
33	10.7,	238.5,	128.7,	13.3,	63.2,	34	10.7,	242.1,	150.6,	-4.5,	70.3,
35	10.7,	238.4,	185.1,	-36.4,	75.3,	36	10.7,	228.2,	213.9,	-67.1,	78.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

402680.3, 402746.2, 402812.2, 402878.1, 402944.0, 403010.0, 403075.9, 403141.8, 403207.8, 403273.7,
403339.6, 403405.5, 403471.5, 403537.4, 403603.3, 403669.3, 403735.2, 403801.1, 403867.1, 403933.0,
403998.9,

*** Y-COORDINATES OF GRID ***

(METERS)

3759000.9, 3759070.5, 3759140.2, 3759209.8, 3759279.4, 3759349.0, 3759418.7, 3759488.3, 3759557.9, 3759627.6,
3759697.2, 3759766.8, 3759836.5, 3759906.1, 3759975.7, 3760045.4, 3760115.0, 3760184.6, 3760254.2, 3760323.9,
3760393.5,

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	65.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	56.20	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	59.50
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	55.00	55.10	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)

(METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	84.30	85.20	87.50	88.10	90.20	92.90
3760323.87	76.50	78.70	80.70	82.30	83.80	84.90	86.10	88.80	90.70
3760254.24	75.30	77.80	78.80	80.80	82.10	83.20	84.90	87.20	89.70
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	84.00	86.10	88.20
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	87.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	66.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 403867.06	403932.99	403998.92
3760393.50	94.90	97.60	99.60
3760323.87	92.60	95.30	97.80
3760254.24	91.60	94.30	96.20
3760184.61	91.00	92.90	95.10
3760114.98	90.20	92.20	94.00
3760045.35	89.50	91.10	93.10
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60
3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90

3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	67.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	59.00	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	62.60
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	57.50	56.80	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	324.50	361.90	361.90	361.90	361.90	361.90
3760323.87	76.50	78.70	80.70	82.30	324.50	361.90	361.90	361.90	361.90
3760254.24	75.30	77.80	78.80	80.80	82.10	324.70	324.70	361.90	361.90
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	324.50	324.70	336.70
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	323.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	70.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	403867.06	403932.99	403998.92
3760393.50	361.90	361.90	361.90
3760323.87	361.90	361.90	361.90
3760254.24	361.90	361.90	361.90
3760184.61	361.10	361.90	361.90
3760114.98	324.50	324.70	336.70
3760045.35	89.50	91.10	323.90
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60

3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90
3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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

(403076.6,	3759566.9,	63.0,	63.0,	0.0);	(403074.6,	3759594.7,	63.1,	63.1,	0.0);
(403074.3,	3759652.4,	63.8,	63.8,	0.0);	(403036.2,	3759545.2,	61.6,	61.6,	0.0);
(403491.1,	3759689.7,	73.7,	73.7,	0.0);	(403558.2,	3759512.8,	71.0,	71.0,	0.0);
(403587.6,	3759479.4,	70.9,	70.9,	0.0);	(403471.1,	3759691.3,	73.3,	73.3,	0.0);
(403097.0,	3760166.2,	69.1,	69.1,	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)
L0000278	403339.6	3759627.6	0.57
L0000279	403339.6	3759627.6	-7.10
L0000280	403339.6	3759627.6	-0.35
L0000296	403207.8	3759557.9	-4.23
L0000297	403207.8	3759557.9	-2.88
L0000304	403405.5	3759627.6	-4.59
L0000305	403405.5	3759627.6	-3.45
L0000335	403537.4	3759418.7	0.82
L0000363	403669.3	3759209.8	-3.56
L0000364	403669.3	3759209.8	-5.02
L0000415	403339.6	3759070.5	-4.58

L0000416	403339.6	3759070.5	-3.94
L0000443	403537.4	3759488.3	-1.57
L0000444	403537.4	3759488.3	-7.74
L0000459	403471.5	3759627.6	-0.10
L0000468	403405.5	3759697.2	-0.35
L0000483	403339.6	3759836.5	-2.86
L0000484	403339.6	3759836.5	-2.05
L0000507	403207.8	3760045.4	-1.37
L0000508	403207.8	3760045.4	-7.99
L0000532	403075.9	3760254.2	-1.02

*** 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
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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
```

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\PICO_V9_ADJU\PICO_v9.SFC   Met Version: 16216
Profile file: E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:   3166   Upper air station no.:   3190
Name: UNKNOWN   Name: UNKNOWN
Year: 2010   Year: 2010

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
10	01	01	1	01	-38.6	0.384	-9.000	-9.000	-999.	572.	162.4	0.34	0.73	1.00	3.10	321.	9.1	283.8	5.5
10	01	01	1	02	-33.5	0.333	-9.000	-9.000	-999.	462.	121.8	0.34	0.73	1.00	2.70	217.	9.1	282.5	5.5
10	01	01	1	03	-21.9	0.218	-9.000	-9.000	-999.	251.	52.2	0.34	0.73	1.00	1.80	290.	9.1	282.5	5.5
10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10	01	01	1	09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10	01	01	1	10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10	01	01	1	11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10	01	01	1	12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10	01	01	1	13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10	01	01	1	14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10	01	01	1	15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10	01	01	1	16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10	01	01	1	17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10	01	01	1	18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10	01	01	1	19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10	01	01	1	20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73	1.00	1.30	25.	9.1	287.0	5.5
10	01	01	1	21	-21.6	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	343.	9.1	285.9	5.5
10	01	01	1	22	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	332.	9.1	284.9	5.5
10	01	01	1	23	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	178.	9.1	284.2	5.5
10	01	01	1	24	-11.8	0.154	-9.000	-9.000	-999.	145.	27.6	0.34	0.73	1.00	1.30	28.	9.1	283.1	5.5

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	283.8	99.0	-99.00	-99.00
10	01	01	01	9.1	1	321.	3.10	-999.0	99.0	-99.00	-99.00

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

*** 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 ,
L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 ,
L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 , L0000288 , L0000289 ,
L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	0.00008	0.00009	0.00011	0.00013	0.00017	0.00036	0.00024	0.00020	0.00019
3760323.87	0.00009	0.00010	0.00012	0.00015	0.00020	0.00039	0.00048	0.00028	0.00025
3760254.24	0.00010	0.00012	0.00014	0.00017	0.00022	0.00031	0.00071	0.00042	0.00032
3760184.61	0.00011	0.00013	0.00016	0.00020	0.00024	0.00031	0.00046	0.00085	0.00044
3760114.98	0.00012	0.00015	0.00018	0.00022	0.00027	0.00034	0.00043	0.00072	0.00066
3760045.35	0.00013	0.00016	0.00020	0.00025	0.00031	0.00038	0.00047	0.00060	0.00094
3759975.72	0.00015	0.00018	0.00022	0.00027	0.00034	0.00043	0.00053	0.00065	0.00086
3759906.09	0.00016	0.00019	0.00024	0.00030	0.00038	0.00048	0.00060	0.00075	0.00093
3759836.46	0.00017	0.00021	0.00026	0.00033	0.00041	0.00053	0.00068	0.00090	0.00122
3759766.83	0.00018	0.00022	0.00028	0.00035	0.00044	0.00056	0.00076	0.00125	0.00146
3759697.20	0.00018	0.00023	0.00029	0.00037	0.00046	0.00060	0.00088	0.00116	0.00160
3759627.57	0.00018	0.00023	0.00030	0.00037	0.00048	0.00064	0.00107	0.00111	0.00199
3759557.94	0.00018	0.00023	0.00029	0.00037	0.00048	0.00068	0.00108	0.00185	0.00290
3759488.31	0.00018	0.00022	0.00028	0.00036	0.00048	0.00069	0.00110	0.00176	0.00184
3759418.68	0.00017	0.00021	0.00027	0.00036	0.00048	0.00068	0.00094	0.00104	0.00090
3759349.05	0.00016	0.00020	0.00026	0.00034	0.00046	0.00060	0.00066	0.00065	0.00058
3759279.42	0.00015	0.00019	0.00024	0.00031	0.00039	0.00047	0.00047	0.00044	0.00041
3759209.79	0.00014	0.00017	0.00021	0.00026	0.00031	0.00034	0.00034	0.00033	0.00032
3759140.16	0.00012	0.00015	0.00018	0.00022	0.00024	0.00026	0.00027	0.00028	0.00031
3759070.53	0.00011	0.00013	0.00015	0.00017	0.00019	0.00020	0.00023	0.00034	0.00051
3759000.90	0.00010	0.00011	0.00013	0.00014	0.00015	0.00016	0.00019	0.00031	0.00032

*** 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 ,
L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 ,
L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 , L0000288 , L0000289 ,
L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	0.00019	0.00018	0.00017	0.00016	0.00015	0.00014	0.00013	0.00012	0.00011
3760323.87	0.00023	0.00022	0.00021	0.00020	0.00018	0.00017	0.00015	0.00014	0.00012
3760254.24	0.00029	0.00028	0.00026	0.00024	0.00022	0.00020	0.00018	0.00016	0.00014
3760184.61	0.00038	0.00035	0.00033	0.00030	0.00026	0.00023	0.00021	0.00018	0.00016
3760114.98	0.00050	0.00045	0.00041	0.00037	0.00032	0.00028	0.00024	0.00021	0.00018

3760045.35	0.00068	0.00059	0.00052	0.00045	0.00039	0.00033	0.00028	0.00023	0.00019
3759975.72	0.00108	0.00078	0.00066	0.00056	0.00048	0.00039	0.00032	0.00026	0.00020
3759906.09	0.00135	0.00109	0.00087	0.00071	0.00058	0.00045	0.00035	0.00027	0.00021
3759836.46	0.00143	0.00160	0.00117	0.00088	0.00066	0.00048	0.00036	0.00027	0.00021
3759766.83	0.00175	0.00195	0.00172	0.00104	0.00069	0.00048	0.00035	0.00026	0.00020
3759697.20	0.00212	0.00184	0.00228	0.00114	0.00069	0.00047	0.00034	0.00025	0.00019
3759627.57	0.00266	0.00279	0.00232	0.00144	0.00071	0.00047	0.00033	0.00025	0.00019
3759557.94	0.00240	0.00177	0.00155	0.00159	0.00088	0.00049	0.00034	0.00025	0.00019
3759488.31	0.00147	0.00115	0.00105	0.00181	0.00117	0.00054	0.00034	0.00025	0.00019
3759418.68	0.00080	0.00074	0.00072	0.00079	0.00109	0.00057	0.00036	0.00026	0.00020
3759349.05	0.00053	0.00052	0.00051	0.00052	0.00059	0.00090	0.00040	0.00028	0.00021
3759279.42	0.00040	0.00040	0.00040	0.00040	0.00043	0.00064	0.00051	0.00030	0.00021
3759209.79	0.00033	0.00034	0.00035	0.00036	0.00038	0.00043	0.00071	0.00034	0.00021
3759140.16	0.00033	0.00036	0.00039	0.00044	0.00052	0.00067	0.00091	0.00034	0.00019
3759070.53	0.00076	0.00066	0.00072	0.00050	0.00040	0.00034	0.00028	0.00021	0.00016
3759000.90	0.00030	0.00027	0.00025	0.00024	0.00022	0.00020	0.00018	0.00015	0.00013

*** 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 ,
L0000274 , L0000275 , L0000276 , L0000277 , L0000278 , L0000279 , L0000280 , L0000281 ,
L0000282 , L0000283 , L0000284 , L0000285 , L0000286 , L0000287 , L0000288 , L0000289 ,
L0000290 , L0000291 , L0000292 , L0000293 , L0000294 , L0000295 , L0000296 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	403867.06	403932.99	403998.92
3760393.50	0.00010	0.00009	0.00008
3760323.87	0.00011	0.00010	0.00009
3760254.24	0.00012	0.00011	0.00010
3760184.61	0.00014	0.00012	0.00010
3760114.98	0.00015	0.00013	0.00011
3760045.35	0.00016	0.00013	0.00011
3759975.72	0.00016	0.00013	0.00011
3759906.09	0.00017	0.00013	0.00011
3759836.46	0.00016	0.00013	0.00010
3759766.83	0.00016	0.00012	0.00010
3759697.20	0.00015	0.00012	0.00010
3759627.57	0.00015	0.00012	0.00010
3759557.94	0.00015	0.00012	0.00010
3759488.31	0.00015	0.00012	0.00010
3759418.68	0.00016	0.00012	0.00010

```
 3759349.05 |       0.00016      0.00013      0.00010
 3759279.42 |       0.00016      0.00012      0.00010
 3759209.79 |       0.00016      0.00012      0.00009
 3759140.16 |       0.00014      0.00011      0.00009
 3759070.53 |       0.00013      0.00011      0.00009
 3759000.90 |       0.00011      0.00010      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   ,
L0000274   , L0000275   , L0000276   , L0000277   , L0000278   , L0000279   , L0000280   , L0000281   ,
L0000282   , L0000283   , L0000284   , L0000285   , L0000286   , L0000287   , L0000288   , L0000289   ,
L0000290   , L0000291   , L0000292   , L0000293   , L0000294   , L0000295   , L0000296   , . . .   ,

*** 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
403076.63	3759566.89	0.00109	403074.61	3759594.66	0.00107
403074.33	3759652.43	0.00102	403036.23	3759545.23	0.00080
403491.13	3759689.69	0.00096	403558.25	3759512.77	0.00085
403587.63	3759479.41	0.00063	403471.13	3759691.31	0.00115
403096.96	3760166.19	0.00053			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** 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	0.00290	AT (403207.76, 3759557.94, 66.70, 66.70, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00279	AT (403339.62, 3759627.57, 68.10, 68.10, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00266	AT (403273.69, 3759627.57, 67.70, 67.70, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00240	AT (403273.69, 3759557.94, 66.40, 66.40, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00232	AT (403405.55, 3759627.57, 70.40, 70.40, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00228	AT (403405.55, 3759697.20, 72.10, 72.10, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00212	AT (403273.69, 3759697.20, 68.00, 68.00, 0.00)	GC	UCART1

```
         8TH HIGHEST VALUE IS       0.00199 AT (  403207.76,  3759627.57,    67.30,    67.30,    0.00)  GC  UCART1
         9TH HIGHEST VALUE IS       0.00195 AT (  403339.62,  3759766.83,    71.30,    71.30,    0.00)  GC  UCART1
        10TH HIGHEST VALUE IS       0.00185 AT (  403141.83,  3759557.94,    66.20,    66.20,    0.00)  GC  UCART1


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

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2024 and 2025                          ***        17:23:51
                                                                                                               PAGE  32
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of            0 Fatal Error Message(s)
A Total of            9 Warning Message(s)
A Total of         1277 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          152 Calm Hours Identified

A Total of         1125 Missing Hours Identified (  2.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     408        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     409        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     410        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     411        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     412        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186     896       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     896       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:      15010101
MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 2/10/2022
** File: C:\Lakes\AERMOD View\19391 Whittier Blvd BP 1st 14YR\19391 Whittier Blvd BP 1st 14YR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 19391 Whittier Blvd BP
   TITLETWO DPM Concentrations Years 2026 to 2039
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "19391 Whittier Blvd BP 1st 14YR.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      403193.640  3759565.730       66.820
** DESCRSRC Truck idling Location
   LOCATION STCK2        POINT      403256.045  3759598.705       67.440
** DESCRSRC Truck idling Location
   LOCATION STCK3        POINT      403214.561  3759575.303       66.930
** DESCRSRC Truck idling Location
   LOCATION STCK4        POINT      403285.474  3759616.787       67.600
** DESCRSRC Truck idling Location
   LOCATION STCK5        POINT      403325.895  3759622.106       67.810
** DESCRSRC Truck idling Location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site truck travel
```

```
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.91E-06
** Elevated
** Building Height = 10.67
** SZINIT = 4.96
** Nodes = 6
** 403375.398, 3759658.946, 69.18, 3.50, 4.00
** 403366.638, 3759651.020, 68.32, 3.50, 4.00
** 403359.964, 3759643.512, 68.04, 3.50, 4.00
** 403352.039, 3759636.003, 68.03, 3.50, 4.00
** 403321.587, 3759619.318, 67.72, 3.50, 4.00
** 403188.103, 3759543.816, 66.04, 3.50, 4.00
** ------------------------------------------------------------------
   LOCATION L0000547     VOLUME   403372.213 3759656.064 68.90
   LOCATION L0000548     VOLUME   403365.926 3759650.218 68.32
   LOCATION L0000549     VOLUME   403360.218 3759643.798 68.11
   LOCATION L0000550     VOLUME   403354.005 3759637.867 68.17
   LOCATION L0000551     VOLUME   403346.880 3759633.177 68.10
   LOCATION L0000552     VOLUME   403339.346 3759629.049 68.04
   LOCATION L0000553     VOLUME   403331.812 3759624.921 67.93
   LOCATION L0000554     VOLUME   403324.279 3759620.793 67.77
   LOCATION L0000555     VOLUME   403316.781 3759616.599 67.69
   LOCATION L0000556     VOLUME   403309.303 3759612.370 67.68
   LOCATION L0000557     VOLUME   403301.826 3759608.140 67.64
   LOCATION L0000558     VOLUME   403294.348 3759603.911 67.57
   LOCATION L0000559     VOLUME   403286.871 3759599.681 67.53
   LOCATION L0000560     VOLUME   403279.393 3759595.452 67.48
   LOCATION L0000561     VOLUME   403271.916 3759591.222 67.43
   LOCATION L0000562     VOLUME   403264.438 3759586.993 67.38
   LOCATION L0000563     VOLUME   403256.961 3759582.763 67.27
   LOCATION L0000564     VOLUME   403249.483 3759578.534 67.16
   LOCATION L0000565     VOLUME   403242.006 3759574.304 67.06
   LOCATION L0000566     VOLUME   403234.528 3759570.075 66.94
   LOCATION L0000567     VOLUME   403227.051 3759565.846 66.85
   LOCATION L0000568     VOLUME   403219.573 3759561.616 66.80
   LOCATION L0000569     VOLUME   403212.096 3759557.387 66.75
   LOCATION L0000570     VOLUME   403204.618 3759553.157 66.59
   LOCATION L0000571     VOLUME   403197.140 3759548.928 66.29
   LOCATION L0000572     VOLUME   403189.663 3759544.698 66.05
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Offsite from Project dwy s/b along Whitter Frontage Rd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.05E-06
** Elevated
```

```
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 4
** 403383.146, 3759663.541, 69.95, 3.50, 4.00
** 403507.316, 3759446.613, 68.09, 3.50, 4.00
** 403511.242, 3759446.613, 68.15, 3.50, 4.00
** 403520.076, 3759451.030, 68.52, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000573     VOLUME   403385.280 3759659.813 70.03
   LOCATION L0000574     VOLUME   403389.548 3759652.357 69.98
   LOCATION L0000575     VOLUME   403393.816 3759644.901 70.08
   LOCATION L0000576     VOLUME   403398.083 3759637.446 70.40
   LOCATION L0000577     VOLUME   403402.351 3759629.990 70.43
   LOCATION L0000578     VOLUME   403406.619 3759622.534 70.34
   LOCATION L0000579     VOLUME   403410.886 3759615.078 70.21
   LOCATION L0000580     VOLUME   403415.154 3759607.622 70.06
   LOCATION L0000581     VOLUME   403419.422 3759600.167 69.93
   LOCATION L0000582     VOLUME   403423.689 3759592.711 69.84
   LOCATION L0000583     VOLUME   403427.957 3759585.255 69.78
   LOCATION L0000584     VOLUME   403432.225 3759577.799 69.72
   LOCATION L0000585     VOLUME   403436.492 3759570.343 69.64
   LOCATION L0000586     VOLUME   403440.760 3759562.888 69.55
   LOCATION L0000587     VOLUME   403445.028 3759555.432 69.44
   LOCATION L0000588     VOLUME   403449.295 3759547.976 69.28
   LOCATION L0000589     VOLUME   403453.563 3759540.520 69.16
   LOCATION L0000590     VOLUME   403457.831 3759533.065 69.03
   LOCATION L0000591     VOLUME   403462.098 3759525.609 68.88
   LOCATION L0000592     VOLUME   403466.366 3759518.153 68.78
   LOCATION L0000593     VOLUME   403470.634 3759510.697 68.77
   LOCATION L0000594     VOLUME   403474.901 3759503.241 68.75
   LOCATION L0000595     VOLUME   403479.169 3759495.786 68.72
   LOCATION L0000596     VOLUME   403483.437 3759488.330 68.63
   LOCATION L0000597     VOLUME   403487.705 3759480.874 68.52
   LOCATION L0000598     VOLUME   403491.972 3759473.418 68.41
   LOCATION L0000599     VOLUME   403496.240 3759465.962 68.30
   LOCATION L0000600     VOLUME   403500.508 3759458.507 68.20
   LOCATION L0000601     VOLUME   403504.775 3759451.051 68.09
   LOCATION L0000602     VOLUME   403510.793 3759446.613 68.07
   LOCATION L0000603     VOLUME   403518.524 3759450.254 68.28
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC South on Whittier Blvd to Washington Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.75E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
```

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** Nodes = 14
** 403526.824, 3759455.741, 68.65, 3.50, 4.00
** 403561.451, 3759395.666, 67.72, 3.50, 4.00
** 403590.654, 3759346.021, 66.66, 3.50, 4.00
** 403619.440, 3759297.627, 66.39, 3.50, 4.00
** 403665.747, 3759216.276, 64.97, 3.50, 4.00
** 403687.024, 3759180.815, 65.01, 3.50, 4.00
** 403697.453, 3759163.710, 64.84, 3.50, 4.00
** 403700.374, 3759155.367, 64.87, 3.50, 4.00
** 403700.791, 3759147.023, 64.93, 3.50, 4.00
** 403696.619, 3759138.679, 64.56, 3.50, 4.00
** 403687.441, 3759131.587, 64.03, 3.50, 4.00
** 403661.575, 3759130.753, 63.12, 3.50, 4.00
** 403635.293, 3759128.250, 62.14, 3.50, 4.00
** 403132.336, 3759031.102, 52.34, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000604     VOLUME   403528.969 3759452.019 68.52
   LOCATION L0000605     VOLUME   403533.259 3759444.576 68.43
   LOCATION L0000606     VOLUME   403537.549 3759437.134 68.33
   LOCATION L0000607     VOLUME   403541.839 3759429.691 68.23
   LOCATION L0000608     VOLUME   403546.129 3759422.248 68.12
   LOCATION L0000609     VOLUME   403550.419 3759414.805 68.02
   LOCATION L0000610     VOLUME   403554.709 3759407.362 67.93
   LOCATION L0000611     VOLUME   403558.999 3759399.919 67.88
   LOCATION L0000612     VOLUME   403563.318 3759392.492 67.86
   LOCATION L0000613     VOLUME   403567.673 3759385.088 67.79
   LOCATION L0000614     VOLUME   403572.029 3759377.683 67.69
   LOCATION L0000615     VOLUME   403576.385 3759370.278 67.54
   LOCATION L0000616     VOLUME   403580.740 3759362.873 67.43
   LOCATION L0000617     VOLUME   403585.096 3759355.469 67.29
   LOCATION L0000618     VOLUME   403589.452 3759348.064 67.11
   LOCATION L0000619     VOLUME   403593.834 3759340.675 66.91
   LOCATION L0000620     VOLUME   403598.226 3759333.291 66.71
   LOCATION L0000621     VOLUME   403602.617 3759325.908 66.55
   LOCATION L0000622     VOLUME   403607.009 3759318.525 66.41
   LOCATION L0000623     VOLUME   403611.401 3759311.141 66.32
   LOCATION L0000624     VOLUME   403615.793 3759303.758 66.26
   LOCATION L0000625     VOLUME   403620.161 3759296.361 66.20
   LOCATION L0000626     VOLUME   403624.410 3759288.895 66.08
   LOCATION L0000627     VOLUME   403628.660 3759281.429 65.92
   LOCATION L0000628     VOLUME   403632.910 3759273.963 65.87
   LOCATION L0000629     VOLUME   403637.160 3759266.497 65.80
   LOCATION L0000630     VOLUME   403641.410 3759259.031 65.70
   LOCATION L0000631     VOLUME   403645.660 3759251.565 65.55
   LOCATION L0000632     VOLUME   403649.909 3759244.099 65.38
   LOCATION L0000633     VOLUME   403654.159 3759236.633 65.20
   LOCATION L0000634     VOLUME   403658.409 3759229.167 65.08
   LOCATION L0000635     VOLUME   403662.659 3759221.701 65.03
   LOCATION L0000636     VOLUME   403666.955 3759214.262 65.06
   LOCATION L0000637     VOLUME   403671.375 3759206.896 65.18
   LOCATION L0000638     VOLUME   403675.795 3759199.529 65.30
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LOCATION L0000639     VOLUME   403680.215 3759192.163 65.28
LOCATION L0000640     VOLUME   403684.635 3759184.796 65.20
LOCATION L0000641     VOLUME   403689.079 3759177.444 65.11
LOCATION L0000642     VOLUME   403693.552 3759170.109 65.01
LOCATION L0000643     VOLUME   403697.816 3759162.676 64.98
LOCATION L0000644     VOLUME   403700.416 3759154.521 64.94
LOCATION L0000645     VOLUME   403700.306 3759146.054 64.83
LOCATION L0000646     VOLUME   403696.345 3759138.468 64.60
LOCATION L0000647     VOLUME   403689.548 3759133.215 64.32
LOCATION L0000648     VOLUME   403681.516 3759131.396 64.05
LOCATION L0000649     VOLUME   403672.929 3759131.119 63.79
LOCATION L0000650     VOLUME   403664.343 3759130.842 63.54
LOCATION L0000651     VOLUME   403655.780 3759130.201 63.27
LOCATION L0000652     VOLUME   403647.228 3759129.386 62.98
LOCATION L0000653     VOLUME   403638.676 3759128.572 62.66
LOCATION L0000654     VOLUME   403630.194 3759127.265 62.32
LOCATION L0000655     VOLUME   403621.759 3759125.636 61.99
LOCATION L0000656     VOLUME   403613.325 3759124.006 61.67
LOCATION L0000657     VOLUME   403604.890 3759122.377 61.37
LOCATION L0000658     VOLUME   403596.455 3759120.748 61.06
LOCATION L0000659     VOLUME   403588.020 3759119.119 60.80
LOCATION L0000660     VOLUME   403579.585 3759117.489 60.59
LOCATION L0000661     VOLUME   403571.150 3759115.860 60.42
LOCATION L0000662     VOLUME   403562.715 3759114.231 60.30
LOCATION L0000663     VOLUME   403554.280 3759112.602 60.14
LOCATION L0000664     VOLUME   403545.845 3759110.973 59.97
LOCATION L0000665     VOLUME   403537.411 3759109.343 59.86
LOCATION L0000666     VOLUME   403528.976 3759107.714 59.74
LOCATION L0000667     VOLUME   403520.541 3759106.085 59.62
LOCATION L0000668     VOLUME   403512.106 3759104.456 59.52
LOCATION L0000669     VOLUME   403503.671 3759102.826 59.41
LOCATION L0000670     VOLUME   403495.236 3759101.197 59.29
LOCATION L0000671     VOLUME   403486.801 3759099.568 59.11
LOCATION L0000672     VOLUME   403478.366 3759097.939 58.94
LOCATION L0000673     VOLUME   403469.931 3759096.310 58.75
LOCATION L0000674     VOLUME   403461.496 3759094.680 58.50
LOCATION L0000675     VOLUME   403453.062 3759093.051 58.26
LOCATION L0000676     VOLUME   403444.627 3759091.422 58.02
LOCATION L0000677     VOLUME   403436.192 3759089.793 57.76
LOCATION L0000678     VOLUME   403427.757 3759088.163 57.55
LOCATION L0000679     VOLUME   403419.322 3759086.534 57.37
LOCATION L0000680     VOLUME   403410.887 3759084.905 57.32
LOCATION L0000681     VOLUME   403402.452 3759083.276 57.24
LOCATION L0000682     VOLUME   403394.017 3759081.647 57.13
LOCATION L0000683     VOLUME   403385.582 3759080.017 57.09
LOCATION L0000684     VOLUME   403377.147 3759078.388 57.03
LOCATION L0000685     VOLUME   403368.713 3759076.759 56.95
LOCATION L0000686     VOLUME   403360.278 3759075.130 56.89
LOCATION L0000687     VOLUME   403351.843 3759073.500 56.84
LOCATION L0000688     VOLUME   403343.408 3759071.871 56.78
LOCATION L0000689     VOLUME   403334.973 3759070.242 56.72
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   LOCATION L0000690     VOLUME   403326.538 3759068.613 56.65
   LOCATION L0000691     VOLUME   403318.103 3759066.984 56.57
   LOCATION L0000692     VOLUME   403309.668 3759065.354 56.37
   LOCATION L0000693     VOLUME   403301.233 3759063.725 56.17
   LOCATION L0000694     VOLUME   403292.799 3759062.096 55.97
   LOCATION L0000695     VOLUME   403284.364 3759060.467 55.70
   LOCATION L0000696     VOLUME   403275.929 3759058.837 55.41
   LOCATION L0000697     VOLUME   403267.494 3759057.208 55.13
   LOCATION L0000698     VOLUME   403259.059 3759055.579 54.93
   LOCATION L0000699     VOLUME   403250.624 3759053.950 54.75
   LOCATION L0000700     VOLUME   403242.189 3759052.321 54.55
   LOCATION L0000701     VOLUME   403233.754 3759050.691 54.50
   LOCATION L0000702     VOLUME   403225.319 3759049.062 54.47
   LOCATION L0000703     VOLUME   403216.884 3759047.433 54.40
   LOCATION L0000704     VOLUME   403208.450 3759045.804 54.23
   LOCATION L0000705     VOLUME   403200.015 3759044.174 54.01
   LOCATION L0000706     VOLUME   403191.580 3759042.545 53.80
   LOCATION L0000707     VOLUME   403183.145 3759040.916 53.54
   LOCATION L0000708     VOLUME   403174.710 3759039.287 53.26
   LOCATION L0000709     VOLUME   403166.275 3759037.658 53.01
   LOCATION L0000710     VOLUME   403157.840 3759036.028 52.81
   LOCATION L0000711     VOLUME   403149.405 3759034.399 52.62
   LOCATION L0000712     VOLUME   403140.970 3759032.770 52.43
   LOCATION L0000713     VOLUME   403132.535 3759031.141 52.25
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Northbound along Whitter Blvd
** PREFIX
** Length of Side = 10.11
** Configuration = Adjacent
** Emission Rate = 4.29E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 7
** 403541.907, 3759460.234, 69.09, 3.50, 4.70
** 403548.291, 3759465.199, 69.37, 3.50, 4.70
** 403540.134, 3759487.187, 69.75, 3.50, 4.70
** 403492.611, 3759570.175, 70.72, 3.50, 4.70
** 403452.890, 3759640.041, 71.88, 3.50, 4.70
** 403398.984, 3759724.801, 72.44, 3.50, 4.70
** 403007.874, 3760386.371, 71.03, 3.50, 4.70
** ----------------------------------------------------------------------
   LOCATION L0000714     VOLUME   403545.899 3759463.339 69.32
   LOCATION L0000715     VOLUME   403545.826 3759471.842 69.48
   LOCATION L0000716     VOLUME   403542.308 3759481.325 69.66
   LOCATION L0000717     VOLUME   403538.215 3759490.539 69.93
   LOCATION L0000718     VOLUME   403533.188 3759499.317 70.12
   LOCATION L0000719     VOLUME   403528.162 3759508.094 70.18
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LOCATION L0000720     VOLUME   403523.135 3759516.871 70.13
LOCATION L0000721     VOLUME   403518.109 3759525.649 70.26
LOCATION L0000722     VOLUME   403513.082 3759534.426 70.53
LOCATION L0000723     VOLUME   403508.056 3759543.204 70.83
LOCATION L0000724     VOLUME   403503.030 3759551.981 71.13
LOCATION L0000725     VOLUME   403498.003 3759560.759 71.07
LOCATION L0000726     VOLUME   403492.977 3759569.536 71.01
LOCATION L0000727     VOLUME   403487.976 3759578.328 70.99
LOCATION L0000728     VOLUME   403482.977 3759587.121 71.05
LOCATION L0000729     VOLUME   403477.977 3759595.914 71.14
LOCATION L0000730     VOLUME   403472.978 3759604.708 71.24
LOCATION L0000731     VOLUME   403467.979 3759613.501 71.43
LOCATION L0000732     VOLUME   403462.980 3759622.294 71.63
LOCATION L0000733     VOLUME   403457.981 3759631.087 71.77
LOCATION L0000734     VOLUME   403452.982 3759639.880 71.85
LOCATION L0000735     VOLUME   403447.562 3759648.419 71.87
LOCATION L0000736     VOLUME   403442.134 3759656.954 71.94
LOCATION L0000737     VOLUME   403436.705 3759665.489 72.05
LOCATION L0000738     VOLUME   403431.277 3759674.024 72.20
LOCATION L0000739     VOLUME   403425.849 3759682.559 72.31
LOCATION L0000740     VOLUME   403420.421 3759691.094 72.30
LOCATION L0000741     VOLUME   403414.993 3759699.629 72.34
LOCATION L0000742     VOLUME   403409.565 3759708.164 72.42
LOCATION L0000743     VOLUME   403404.137 3759716.699 72.47
LOCATION L0000744     VOLUME   403398.723 3759725.243 72.48
LOCATION L0000745     VOLUME   403393.576 3759733.950 72.47
LOCATION L0000746     VOLUME   403388.428 3759742.657 72.44
LOCATION L0000747     VOLUME   403383.281 3759751.364 72.37
LOCATION L0000748     VOLUME   403378.133 3759760.071 72.29
LOCATION L0000749     VOLUME   403372.986 3759768.778 72.20
LOCATION L0000750     VOLUME   403367.838 3759777.485 72.12
LOCATION L0000751     VOLUME   403362.691 3759786.192 72.06
LOCATION L0000752     VOLUME   403357.543 3759794.899 72.03
LOCATION L0000753     VOLUME   403352.396 3759803.606 72.02
LOCATION L0000754     VOLUME   403347.248 3759812.313 71.99
LOCATION L0000755     VOLUME   403342.101 3759821.020 71.94
LOCATION L0000756     VOLUME   403336.953 3759829.727 71.89
LOCATION L0000757     VOLUME   403331.806 3759838.434 71.81
LOCATION L0000758     VOLUME   403326.658 3759847.141 71.78
LOCATION L0000759     VOLUME   403321.511 3759855.848 71.74
LOCATION L0000760     VOLUME   403316.364 3759864.555 71.66
LOCATION L0000761     VOLUME   403311.216 3759873.262 71.53
LOCATION L0000762     VOLUME   403306.069 3759881.969 71.43
LOCATION L0000763     VOLUME   403300.921 3759890.677 71.36
LOCATION L0000764     VOLUME   403295.774 3759899.384 71.35
LOCATION L0000765     VOLUME   403290.626 3759908.091 71.32
LOCATION L0000766     VOLUME   403285.479 3759916.798 71.27
LOCATION L0000767     VOLUME   403280.331 3759925.505 71.20
LOCATION L0000768     VOLUME   403275.184 3759934.212 71.19
LOCATION L0000769     VOLUME   403270.036 3759942.919 71.22
LOCATION L0000770     VOLUME   403264.889 3759951.626 71.20
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   LOCATION L0000771     VOLUME   403259.741 3759960.333 71.10
   LOCATION L0000772     VOLUME   403254.594 3759969.040 71.01
   LOCATION L0000773     VOLUME   403249.446 3759977.747 70.98
   LOCATION L0000774     VOLUME   403244.299 3759986.454 70.96
   LOCATION L0000775     VOLUME   403239.151 3759995.161 70.92
   LOCATION L0000776     VOLUME   403234.004 3760003.868 70.88
   LOCATION L0000777     VOLUME   403228.856 3760012.575 70.84
   LOCATION L0000778     VOLUME   403223.709 3760021.282 70.80
   LOCATION L0000779     VOLUME   403218.561 3760029.989 70.75
   LOCATION L0000780     VOLUME   403213.414 3760038.696 70.67
   LOCATION L0000781     VOLUME   403208.267 3760047.403 70.56
   LOCATION L0000782     VOLUME   403203.119 3760056.110 70.47
   LOCATION L0000783     VOLUME   403197.972 3760064.817 70.46
   LOCATION L0000784     VOLUME   403192.824 3760073.525 70.49
   LOCATION L0000785     VOLUME   403187.677 3760082.232 70.47
   LOCATION L0000786     VOLUME   403182.529 3760090.939 70.45
   LOCATION L0000787     VOLUME   403177.382 3760099.646 70.42
   LOCATION L0000788     VOLUME   403172.234 3760108.353 70.40
   LOCATION L0000789     VOLUME   403167.087 3760117.060 70.47
   LOCATION L0000790     VOLUME   403161.939 3760125.767 70.47
   LOCATION L0000791     VOLUME   403156.792 3760134.474 70.40
   LOCATION L0000792     VOLUME   403151.644 3760143.181 70.29
   LOCATION L0000793     VOLUME   403146.497 3760151.888 70.32
   LOCATION L0000794     VOLUME   403141.349 3760160.595 70.34
   LOCATION L0000795     VOLUME   403136.202 3760169.302 70.30
   LOCATION L0000796     VOLUME   403131.054 3760178.009 70.19
   LOCATION L0000797     VOLUME   403125.907 3760186.716 70.07
   LOCATION L0000798     VOLUME   403120.759 3760195.423 69.98
   LOCATION L0000799     VOLUME   403115.612 3760204.130 69.95
   LOCATION L0000800     VOLUME   403110.464 3760212.837 70.08
   LOCATION L0000801     VOLUME   403105.317 3760221.544 70.15
   LOCATION L0000802     VOLUME   403100.170 3760230.251 70.18
   LOCATION L0000803     VOLUME   403095.022 3760238.958 70.24
   LOCATION L0000804     VOLUME   403089.875 3760247.665 70.34
   LOCATION L0000805     VOLUME   403084.727 3760256.373 70.40
   LOCATION L0000806     VOLUME   403079.580 3760265.080 70.43
   LOCATION L0000807     VOLUME   403074.432 3760273.787 70.55
   LOCATION L0000808     VOLUME   403069.285 3760282.494 70.74
   LOCATION L0000809     VOLUME   403064.137 3760291.201 70.91
   LOCATION L0000810     VOLUME   403058.990 3760299.908 71.04
   LOCATION L0000811     VOLUME   403053.842 3760308.615 71.16
   LOCATION L0000812     VOLUME   403048.695 3760317.322 71.30
   LOCATION L0000813     VOLUME   403043.547 3760326.029 71.36
   LOCATION L0000814     VOLUME   403038.400 3760334.736 71.25
   LOCATION L0000815     VOLUME   403033.252 3760343.443 71.12
   LOCATION L0000816     VOLUME   403028.105 3760352.150 70.98
   LOCATION L0000817     VOLUME   403022.957 3760360.857 70.90
   LOCATION L0000818     VOLUME   403017.810 3760369.564 71.03
   LOCATION L0000819     VOLUME   403012.662 3760378.271 71.07
** End of LINE VOLUME Source ID = SLINE4
** Source Parameters **
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   SRCPARAM STCK1         6.31E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK2         6.31E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK3         6.31E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK4         6.31E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK5         6.31E-06     3.500   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE1
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   SRCPARAM L0000549     0.0000001119      3.50      4.00      4.96
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   SRCPARAM L0000564     0.0000001119      3.50      4.00      4.96
   SRCPARAM L0000565     0.0000001119      3.50      4.00      4.96
   SRCPARAM L0000566     0.0000001119      3.50      4.00      4.96
   SRCPARAM L0000567     0.0000001119      3.50      4.00      4.96
   SRCPARAM L0000568     0.0000001119      3.50      4.00      4.96
   SRCPARAM L0000569     0.0000001119      3.50      4.00      4.96
   SRCPARAM L0000570     0.0000001119      3.50      4.00      4.96
   SRCPARAM L0000571     0.0000001119      3.50      4.00      4.96
   SRCPARAM L0000572     0.0000001119      3.50      4.00      4.96
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   SRCPARAM L0000574     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000575     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000576     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000577     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000578     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000579     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000580     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000581     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000582     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000583     0.00000006613      3.50      4.00      1.63
   SRCPARAM L0000584     0.00000006613      3.50      4.00      1.63
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   SRCPARAM L0000589     0.00000006613      3.50      4.00      1.63
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   SRCPARAM L0000603     0.00000006613      3.50      4.00      1.63
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   SRCPARAM L0000605     0.00000003409      3.50      4.00      1.63
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   SRCPARAM L0000612     0.00000003409      3.50      4.00      1.63
   SRCPARAM L0000613     0.00000003409      3.50      4.00      1.63
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   SRCPARAM L0000619     0.00000003409      3.50      4.00      1.63
   SRCPARAM L0000620     0.00000003409      3.50      4.00      1.63
   SRCPARAM L0000621     0.00000003409      3.50      4.00      1.63
   SRCPARAM L0000622     0.00000003409      3.50      4.00      1.63
   SRCPARAM L0000623     0.00000003409      3.50      4.00      1.63
   SRCPARAM L0000624     0.00000003409      3.50      4.00      1.63
   SRCPARAM L0000625     0.00000003409      3.50      4.00      1.63
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   SRCPARAM L0000629     0.00000003409      3.50      4.00      1.63
   SRCPARAM L0000630     0.00000003409      3.50      4.00      1.63
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   SRCPARAM L0000810     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000811     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000812     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000813     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000814     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000815     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000816     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000817     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000818     0.00000004047      3.50      4.70      1.63
   SRCPARAM L0000819     0.00000004047      3.50      4.70      1.63
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1           10.67    10.67    10.67    10.67    10.67    10.67

   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2           10.67    10.67    10.67    10.67    10.67    10.67

   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3           10.67    10.67    10.67    10.67    10.67    10.67
```

BUILDHGT STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDWID STCK1	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK1	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK1	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK1	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK1	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK1	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK2	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK2	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK2	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK2	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK2	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK2	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK3	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK3	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK3	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK3	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK3	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK3	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK4	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK4	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK4	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK4	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK4	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK4	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK5	225.22	215.35	200.78	181.96	0.00	0.00
BUILDWID STCK5	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK5	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK5	225.22	215.35	200.78	181.96	0.00	0.00
BUILDWID STCK5	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK5	258.53	250.32	238.49	242.14	238.43	228.24

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BUILDLEN STCK1          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK1          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK1          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK1          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK1          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK1          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK2          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK2          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK2          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK2          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK2          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK2          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK3          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK3          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK3          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK3          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK3          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK3          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK4          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK4          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK4          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK4          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK4          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK4          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK5          236.22   251.37   258.88   258.53     0.00     0.00
BUILDLEN STCK5          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK5          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK5          236.22   251.37   258.88   258.53     0.00     0.00
BUILDLEN STCK5          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK5          181.96   157.62   128.68   150.61   185.06   213.89

XBADJ    STCK1           -17.27   -23.31   -28.65   -33.12   -36.58   -39.74
XBADJ    STCK1           -47.85   -54.51   -60.29   -78.33   -94.00  -106.80
XBADJ    STCK1          -116.36  -122.39  -124.70  -153.82  -181.26  -203.19
XBADJ    STCK1          -218.95  -228.05  -230.23  -225.41  -213.74  -198.76
XBADJ    STCK1          -194.29  -183.91  -167.95  -146.88  -121.36   -93.98
XBADJ    STCK1           -65.60   -35.23    -3.98     3.21    -3.81   -10.70

XBADJ    STCK2           -60.58   -75.64   -88.41   -98.49  -105.58  -110.27
XBADJ    STCK2          -117.77  -121.70  -122.70  -134.07  -141.37  -144.37
XBADJ    STCK2          -142.98  -137.25  -127.35  -144.18  -159.63  -170.22
XBADJ    STCK2          -175.64  -175.73  -170.47  -160.03  -144.74  -128.23
XBADJ    STCK2          -124.36  -116.73  -105.54   -91.15   -73.99   -56.41
XBADJ    STCK2           -38.98   -20.37    -1.33    -6.43   -25.44   -43.67

XBADJ    STCK3           -30.33   -39.46   -47.40   -53.90   -58.75   -62.64
```

XBADJ	STCK3	-70.78	-76.78	-81.21	-97.27	-110.38	-120.13
XBADJ	STCK3	-126.24	-128.51	-126.87	-151.98	-175.47	-193.62
XBADJ	STCK3	-205.89	-211.90	-211.48	-204.63	-191.56	-175.86
XBADJ	STCK3	-171.36	-161.65	-147.03	-127.94	-104.97	-80.64
XBADJ	STCK3	-55.73	-29.11	-1.81	1.37	-9.60	-20.27
XBADJ	STCK4	-83.50	-102.70	-118.79	-131.26	-139.74	-144.79
XBADJ	STCK4	-151.61	-153.82	-152.12	-159.90	-162.82	-160.80
XBADJ	STCK4	-153.89	-142.30	-126.39	-137.25	-146.92	-152.13
XBADJ	STCK4	-152.72	-148.66	-140.09	-127.27	-110.57	-93.70
XBADJ	STCK4	-90.53	-84.61	-76.12	-65.32	-52.53	-39.98
XBADJ	STCK4	-28.07	-15.32	-2.29	-13.37	-38.14	-61.76
XBADJ	STCK5	-95.76	-121.53	-143.60	-161.32	0.00	0.00
XBADJ	STCK5	-191.41	-194.55	-192.54	-198.78	-198.99	-193.14
XBADJ	STCK5	-181.43	-164.21	-142.00	-146.07	-148.70	-146.81
XBADJ	STCK5	-140.46	-129.84	-115.28	-97.21	0.00	0.00
XBADJ	STCK5	-50.73	-43.88	-35.70	-26.43	-16.36	-7.63
XBADJ	STCK5	-0.53	6.59	13.32	-4.54	-36.36	-67.08
YBADJ	STCK1	-34.28	-13.68	6.41	25.38	43.58	60.36
YBADJ	STCK1	78.51	88.73	96.25	100.84	102.37	100.79
YBADJ	STCK1	96.15	88.58	79.51	73.22	64.70	53.83
YBADJ	STCK1	34.28	13.68	-6.41	-25.38	-43.58	-60.36
YBADJ	STCK1	-78.51	-88.73	-96.25	-100.84	-102.37	-100.79
YBADJ	STCK1	-96.15	-88.58	-79.51	-73.22	-64.70	-53.83
YBADJ	STCK2	21.46	33.69	43.98	52.00	58.44	63.01
YBADJ	STCK2	68.88	67.10	63.27	57.53	50.04	41.03
YBADJ	STCK2	30.77	19.58	8.98	3.30	-2.49	-8.58
YBADJ	STCK2	-21.46	-33.69	-43.98	-52.00	-58.44	-63.01
YBADJ	STCK2	-68.88	-67.10	-63.27	-57.53	-50.04	-41.03
YBADJ	STCK2	-30.77	-19.58	-8.98	-3.30	2.49	8.58
YBADJ	STCK3	-15.34	2.71	19.75	35.26	49.70	62.53
YBADJ	STCK3	76.67	82.93	86.68	87.78	86.22	82.04
YBADJ	STCK3	75.37	66.40	56.61	50.29	42.44	32.91
YBADJ	STCK3	15.34	-2.71	-19.75	-35.26	-49.70	-62.53
YBADJ	STCK3	-76.67	-82.93	-86.68	-87.78	-86.22	-82.04
YBADJ	STCK3	-75.37	-66.40	-56.61	-50.29	-42.44	-32.91
YBADJ	STCK4	47.29	55.15	60.41	62.91	63.49	62.05
YBADJ	STCK4	61.94	54.39	45.18	34.61	22.98	10.65
YBADJ	STCK4	-2.00	-14.59	-25.55	-30.54	-34.60	-38.00
YBADJ	STCK4	-47.29	-55.15	-60.41	-62.91	-63.49	-62.05
YBADJ	STCK4	-61.94	-54.39	-45.18	-34.61	-22.98	-10.65
YBADJ	STCK4	2.00	14.59	25.55	30.54	34.60	38.00
YBADJ	STCK5	86.17	91.31	92.76	90.45	0.00	0.00
YBADJ	STCK5	70.77	56.17	39.86	22.35	4.16	-14.16
YBADJ	STCK5	-32.05	-48.97	-63.21	-70.34	-75.33	-78.42

```
   YBADJ    STCK5          -86.17   -91.31   -92.76   -90.45     0.00     0.00
   YBADJ    STCK5          -70.77   -56.17   -39.86   -22.35    -4.16    14.16
   YBADJ    STCK5           32.05    48.97    63.21    70.34    75.33    78.42

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "19391 Whittier Blvd BP 1st 14YR.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC"
   PROFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL"
   SURFDATA 3166 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 58.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "19391 WHITTIER BLVD BP 1ST 14YR.AD\PE00GALL.PLT" 31
   SUMMFILE "19391 Whittier Blvd BP 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            7 Warning Message(s)
 A Total of            0 Informational Message(s)
```

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


   ********   WARNING MESSAGES   ********
SO W320     408        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     409        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     410        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     411        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     412        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W186     896       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
ME W187     896       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                  ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2026 to 2039                   ***        17:49:17
                                                                                                        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   278 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
       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:    278 Source(s);       1 Source Group(s); and     450 Receptor(s)

               with:      5 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    273 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) =    58.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.0 MB of RAM.

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

**Detailed Error/Message File:   19391 Whittier Blvd BP 1st 14YR.err
**File for Summary of Results:   19391 Whittier Blvd BP 1st 14YR.sum

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2026 to 2039                           ***        17:49:17
                                                                                                               PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** POINT SOURCE DATA ***
```

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.63100E-05	403193.6	3759565.7	66.8	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.63100E-05	403256.0	3759598.7	67.4	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.63100E-05	403214.6	3759575.3	66.9	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.63100E-05	403285.5	3759616.8	67.6	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.63100E-05	403325.9	3759622.1	67.8	3.50	366.00	51.90	0.10	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000547	0	0.11190E-06	403372.2	3759656.1	68.9	3.50	4.00	4.96	YES	
L0000548	0	0.11190E-06	403365.9	3759650.2	68.3	3.50	4.00	4.96	YES	
L0000549	0	0.11190E-06	403360.2	3759643.8	68.1	3.50	4.00	4.96	YES	
L0000550	0	0.11190E-06	403354.0	3759637.9	68.2	3.50	4.00	4.96	YES	
L0000551	0	0.11190E-06	403346.9	3759633.2	68.1	3.50	4.00	4.96	YES	
L0000552	0	0.11190E-06	403339.3	3759629.0	68.0	3.50	4.00	4.96	YES	
L0000553	0	0.11190E-06	403331.8	3759624.9	67.9	3.50	4.00	4.96	YES	
L0000554	0	0.11190E-06	403324.3	3759620.8	67.8	3.50	4.00	4.96	YES	
L0000555	0	0.11190E-06	403316.8	3759616.6	67.7	3.50	4.00	4.96	YES	
L0000556	0	0.11190E-06	403309.3	3759612.4	67.7	3.50	4.00	4.96	YES	
L0000557	0	0.11190E-06	403301.8	3759608.1	67.6	3.50	4.00	4.96	YES	
L0000558	0	0.11190E-06	403294.3	3759603.9	67.6	3.50	4.00	4.96	YES	
L0000559	0	0.11190E-06	403286.9	3759599.7	67.5	3.50	4.00	4.96	YES	
L0000560	0	0.11190E-06	403279.4	3759595.5	67.5	3.50	4.00	4.96	YES	
L0000561	0	0.11190E-06	403271.9	3759591.2	67.4	3.50	4.00	4.96	YES	
L0000562	0	0.11190E-06	403264.4	3759587.0	67.4	3.50	4.00	4.96	YES	
L0000563	0	0.11190E-06	403257.0	3759582.8	67.3	3.50	4.00	4.96	YES	
L0000564	0	0.11190E-06	403249.5	3759578.5	67.2	3.50	4.00	4.96	YES	
L0000565	0	0.11190E-06	403242.0	3759574.3	67.1	3.50	4.00	4.96	YES	
L0000566	0	0.11190E-06	403234.5	3759570.1	66.9	3.50	4.00	4.96	YES	
L0000567	0	0.11190E-06	403227.1	3759565.8	66.8	3.50	4.00	4.96	YES	
L0000568	0	0.11190E-06	403219.6	3759561.6	66.8	3.50	4.00	4.96	YES	
L0000569	0	0.11190E-06	403212.1	3759557.4	66.8	3.50	4.00	4.96	YES	
L0000570	0	0.11190E-06	403204.6	3759553.2	66.6	3.50	4.00	4.96	YES	
L0000571	0	0.11190E-06	403197.1	3759548.9	66.3	3.50	4.00	4.96	YES	
L0000572	0	0.11190E-06	403189.7	3759544.7	66.0	3.50	4.00	4.96	YES	
L0000573	0	0.66130E-07	403385.3	3759659.8	70.0	3.50	4.00	1.63	YES	

L0000574	0	0.66130E-07	403389.5	3759652.4	70.0	3.50	4.00	1.63	YES
L0000575	0	0.66130E-07	403393.8	3759644.9	70.1	3.50	4.00	1.63	YES
L0000576	0	0.66130E-07	403398.1	3759637.4	70.4	3.50	4.00	1.63	YES
L0000577	0	0.66130E-07	403402.4	3759630.0	70.4	3.50	4.00	1.63	YES
L0000578	0	0.66130E-07	403406.6	3759622.5	70.3	3.50	4.00	1.63	YES
L0000579	0	0.66130E-07	403410.9	3759615.1	70.2	3.50	4.00	1.63	YES
L0000580	0	0.66130E-07	403415.2	3759607.6	70.1	3.50	4.00	1.63	YES
L0000581	0	0.66130E-07	403419.4	3759600.2	69.9	3.50	4.00	1.63	YES
L0000582	0	0.66130E-07	403423.7	3759592.7	69.8	3.50	4.00	1.63	YES
L0000583	0	0.66130E-07	403428.0	3759585.3	69.8	3.50	4.00	1.63	YES
L0000584	0	0.66130E-07	403432.2	3759577.8	69.7	3.50	4.00	1.63	YES
L0000585	0	0.66130E-07	403436.5	3759570.3	69.6	3.50	4.00	1.63	YES
L0000586	0	0.66130E-07	403440.8	3759562.9	69.5	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
L0000587	0	0.66130E-07	403445.0	3759555.4	69.4	3.50	4.00	1.63	YES	
L0000588	0	0.66130E-07	403449.3	3759548.0	69.3	3.50	4.00	1.63	YES	
L0000589	0	0.66130E-07	403453.6	3759540.5	69.2	3.50	4.00	1.63	YES	
L0000590	0	0.66130E-07	403457.8	3759533.1	69.0	3.50	4.00	1.63	YES	
L0000591	0	0.66130E-07	403462.1	3759525.6	68.9	3.50	4.00	1.63	YES	
L0000592	0	0.66130E-07	403466.4	3759518.2	68.8	3.50	4.00	1.63	YES	
L0000593	0	0.66130E-07	403470.6	3759510.7	68.8	3.50	4.00	1.63	YES	
L0000594	0	0.66130E-07	403474.9	3759503.2	68.8	3.50	4.00	1.63	YES	
L0000595	0	0.66130E-07	403479.2	3759495.8	68.7	3.50	4.00	1.63	YES	
L0000596	0	0.66130E-07	403483.4	3759488.3	68.6	3.50	4.00	1.63	YES	
L0000597	0	0.66130E-07	403487.7	3759480.9	68.5	3.50	4.00	1.63	YES	
L0000598	0	0.66130E-07	403492.0	3759473.4	68.4	3.50	4.00	1.63	YES	
L0000599	0	0.66130E-07	403496.2	3759466.0	68.3	3.50	4.00	1.63	YES	
L0000600	0	0.66130E-07	403500.5	3759458.5	68.2	3.50	4.00	1.63	YES	
L0000601	0	0.66130E-07	403504.8	3759451.1	68.1	3.50	4.00	1.63	YES	
L0000602	0	0.66130E-07	403510.8	3759446.6	68.1	3.50	4.00	1.63	YES	
L0000603	0	0.66130E-07	403518.5	3759450.3	68.3	3.50	4.00	1.63	YES	
L0000604	0	0.34090E-07	403529.0	3759452.0	68.5	3.50	4.00	1.63	YES	
L0000605	0	0.34090E-07	403533.3	3759444.6	68.4	3.50	4.00	1.63	YES	
L0000606	0	0.34090E-07	403537.5	3759437.1	68.3	3.50	4.00	1.63	YES	
L0000607	0	0.34090E-07	403541.8	3759429.7	68.2	3.50	4.00	1.63	YES	
L0000608	0	0.34090E-07	403546.1	3759422.2	68.1	3.50	4.00	1.63	YES	
L0000609	0	0.34090E-07	403550.4	3759414.8	68.0	3.50	4.00	1.63	YES	
L0000610	0	0.34090E-07	403554.7	3759407.4	67.9	3.50	4.00	1.63	YES	

L0000611	0	0.34090E-07	403559.0	3759399.9	67.9	3.50	4.00	1.63	YES
L0000612	0	0.34090E-07	403563.3	3759392.5	67.9	3.50	4.00	1.63	YES
L0000613	0	0.34090E-07	403567.7	3759385.1	67.8	3.50	4.00	1.63	YES
L0000614	0	0.34090E-07	403572.0	3759377.7	67.7	3.50	4.00	1.63	YES
L0000615	0	0.34090E-07	403576.4	3759370.3	67.5	3.50	4.00	1.63	YES
L0000616	0	0.34090E-07	403580.7	3759362.9	67.4	3.50	4.00	1.63	YES
L0000617	0	0.34090E-07	403585.1	3759355.5	67.3	3.50	4.00	1.63	YES
L0000618	0	0.34090E-07	403589.5	3759348.1	67.1	3.50	4.00	1.63	YES
L0000619	0	0.34090E-07	403593.8	3759340.7	66.9	3.50	4.00	1.63	YES
L0000620	0	0.34090E-07	403598.2	3759333.3	66.7	3.50	4.00	1.63	YES
L0000621	0	0.34090E-07	403602.6	3759325.9	66.5	3.50	4.00	1.63	YES
L0000622	0	0.34090E-07	403607.0	3759318.5	66.4	3.50	4.00	1.63	YES
L0000623	0	0.34090E-07	403611.4	3759311.1	66.3	3.50	4.00	1.63	YES
L0000624	0	0.34090E-07	403615.8	3759303.8	66.3	3.50	4.00	1.63	YES
L0000625	0	0.34090E-07	403620.2	3759296.4	66.2	3.50	4.00	1.63	YES
L0000626	0	0.34090E-07	403624.4	3759288.9	66.1	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000627	0	0.34090E-07	403628.7	3759281.4	65.9	3.50	4.00	1.63	YES	
L0000628	0	0.34090E-07	403632.9	3759274.0	65.9	3.50	4.00	1.63	YES	
L0000629	0	0.34090E-07	403637.2	3759266.5	65.8	3.50	4.00	1.63	YES	
L0000630	0	0.34090E-07	403641.4	3759259.0	65.7	3.50	4.00	1.63	YES	
L0000631	0	0.34090E-07	403645.7	3759251.6	65.5	3.50	4.00	1.63	YES	
L0000632	0	0.34090E-07	403649.9	3759244.1	65.4	3.50	4.00	1.63	YES	
L0000633	0	0.34090E-07	403654.2	3759236.6	65.2	3.50	4.00	1.63	YES	
L0000634	0	0.34090E-07	403658.4	3759229.2	65.1	3.50	4.00	1.63	YES	
L0000635	0	0.34090E-07	403662.7	3759221.7	65.0	3.50	4.00	1.63	YES	
L0000636	0	0.34090E-07	403667.0	3759214.3	65.1	3.50	4.00	1.63	YES	
L0000637	0	0.34090E-07	403671.4	3759206.9	65.2	3.50	4.00	1.63	YES	
L0000638	0	0.34090E-07	403675.8	3759199.5	65.3	3.50	4.00	1.63	YES	
L0000639	0	0.34090E-07	403680.2	3759192.2	65.3	3.50	4.00	1.63	YES	
L0000640	0	0.34090E-07	403684.6	3759184.8	65.2	3.50	4.00	1.63	YES	
L0000641	0	0.34090E-07	403689.1	3759177.4	65.1	3.50	4.00	1.63	YES	
L0000642	0	0.34090E-07	403693.6	3759170.1	65.0	3.50	4.00	1.63	YES	
L0000643	0	0.34090E-07	403697.8	3759162.7	65.0	3.50	4.00	1.63	YES	
L0000644	0	0.34090E-07	403700.4	3759154.5	64.9	3.50	4.00	1.63	YES	
L0000645	0	0.34090E-07	403700.3	3759146.1	64.8	3.50	4.00	1.63	YES	
L0000646	0	0.34090E-07	403696.3	3759138.5	64.6	3.50	4.00	1.63	YES	
L0000647	0	0.34090E-07	403689.5	3759133.2	64.3	3.50	4.00	1.63	YES	

L0000648	0	0.34090E-07	403681.5	3759131.4	64.0	3.50	4.00	1.63	YES
L0000649	0	0.34090E-07	403672.9	3759131.1	63.8	3.50	4.00	1.63	YES
L0000650	0	0.34090E-07	403664.3	3759130.8	63.5	3.50	4.00	1.63	YES
L0000651	0	0.34090E-07	403655.8	3759130.2	63.3	3.50	4.00	1.63	YES
L0000652	0	0.34090E-07	403647.2	3759129.4	63.0	3.50	4.00	1.63	YES
L0000653	0	0.34090E-07	403638.7	3759128.6	62.7	3.50	4.00	1.63	YES
L0000654	0	0.34090E-07	403630.2	3759127.3	62.3	3.50	4.00	1.63	YES
L0000655	0	0.34090E-07	403621.8	3759125.6	62.0	3.50	4.00	1.63	YES
L0000656	0	0.34090E-07	403613.3	3759124.0	61.7	3.50	4.00	1.63	YES
L0000657	0	0.34090E-07	403604.9	3759122.4	61.4	3.50	4.00	1.63	YES
L0000658	0	0.34090E-07	403596.5	3759120.7	61.1	3.50	4.00	1.63	YES
L0000659	0	0.34090E-07	403588.0	3759119.1	60.8	3.50	4.00	1.63	YES
L0000660	0	0.34090E-07	403579.6	3759117.5	60.6	3.50	4.00	1.63	YES
L0000661	0	0.34090E-07	403571.1	3759115.9	60.4	3.50	4.00	1.63	YES
L0000662	0	0.34090E-07	403562.7	3759114.2	60.3	3.50	4.00	1.63	YES
L0000663	0	0.34090E-07	403554.3	3759112.6	60.1	3.50	4.00	1.63	YES
L0000664	0	0.34090E-07	403545.8	3759111.0	60.0	3.50	4.00	1.63	YES
L0000665	0	0.34090E-07	403537.4	3759109.3	59.9	3.50	4.00	1.63	YES
L0000666	0	0.34090E-07	403529.0	3759107.7	59.7	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
L0000667	0	0.34090E-07	403520.5	3759106.1	59.6	3.50	4.00	1.63	YES	
L0000668	0	0.34090E-07	403512.1	3759104.5	59.5	3.50	4.00	1.63	YES	
L0000669	0	0.34090E-07	403503.7	3759102.8	59.4	3.50	4.00	1.63	YES	
L0000670	0	0.34090E-07	403495.2	3759101.2	59.3	3.50	4.00	1.63	YES	
L0000671	0	0.34090E-07	403486.8	3759099.6	59.1	3.50	4.00	1.63	YES	
L0000672	0	0.34090E-07	403478.4	3759097.9	58.9	3.50	4.00	1.63	YES	
L0000673	0	0.34090E-07	403469.9	3759096.3	58.8	3.50	4.00	1.63	YES	
L0000674	0	0.34090E-07	403461.5	3759094.7	58.5	3.50	4.00	1.63	YES	
L0000675	0	0.34090E-07	403453.1	3759093.1	58.3	3.50	4.00	1.63	YES	
L0000676	0	0.34090E-07	403444.6	3759091.4	58.0	3.50	4.00	1.63	YES	
L0000677	0	0.34090E-07	403436.2	3759089.8	57.8	3.50	4.00	1.63	YES	
L0000678	0	0.34090E-07	403427.8	3759088.2	57.5	3.50	4.00	1.63	YES	
L0000679	0	0.34090E-07	403419.3	3759086.5	57.4	3.50	4.00	1.63	YES	
L0000680	0	0.34090E-07	403410.9	3759084.9	57.3	3.50	4.00	1.63	YES	
L0000681	0	0.34090E-07	403402.5	3759083.3	57.2	3.50	4.00	1.63	YES	
L0000682	0	0.34090E-07	403394.0	3759081.6	57.1	3.50	4.00	1.63	YES	
L0000683	0	0.34090E-07	403385.6	3759080.0	57.1	3.50	4.00	1.63	YES	
L0000684	0	0.34090E-07	403377.1	3759078.4	57.0	3.50	4.00	1.63	YES	

L0000685	0	0.34090E-07	403368.7	3759076.8	56.9	3.50	4.00	1.63	YES
L0000686	0	0.34090E-07	403360.3	3759075.1	56.9	3.50	4.00	1.63	YES
L0000687	0	0.34090E-07	403351.8	3759073.5	56.8	3.50	4.00	1.63	YES
L0000688	0	0.34090E-07	403343.4	3759071.9	56.8	3.50	4.00	1.63	YES
L0000689	0	0.34090E-07	403335.0	3759070.2	56.7	3.50	4.00	1.63	YES
L0000690	0	0.34090E-07	403326.5	3759068.6	56.6	3.50	4.00	1.63	YES
L0000691	0	0.34090E-07	403318.1	3759067.0	56.6	3.50	4.00	1.63	YES
L0000692	0	0.34090E-07	403309.7	3759065.4	56.4	3.50	4.00	1.63	YES
L0000693	0	0.34090E-07	403301.2	3759063.7	56.2	3.50	4.00	1.63	YES
L0000694	0	0.34090E-07	403292.8	3759062.1	56.0	3.50	4.00	1.63	YES
L0000695	0	0.34090E-07	403284.4	3759060.5	55.7	3.50	4.00	1.63	YES
L0000696	0	0.34090E-07	403275.9	3759058.8	55.4	3.50	4.00	1.63	YES
L0000697	0	0.34090E-07	403267.5	3759057.2	55.1	3.50	4.00	1.63	YES
L0000698	0	0.34090E-07	403259.1	3759055.6	54.9	3.50	4.00	1.63	YES
L0000699	0	0.34090E-07	403250.6	3759053.9	54.8	3.50	4.00	1.63	YES
L0000700	0	0.34090E-07	403242.2	3759052.3	54.5	3.50	4.00	1.63	YES
L0000701	0	0.34090E-07	403233.8	3759050.7	54.5	3.50	4.00	1.63	YES
L0000702	0	0.34090E-07	403225.3	3759049.1	54.5	3.50	4.00	1.63	YES
L0000703	0	0.34090E-07	403216.9	3759047.4	54.4	3.50	4.00	1.63	YES
L0000704	0	0.34090E-07	403208.5	3759045.8	54.2	3.50	4.00	1.63	YES
L0000705	0	0.34090E-07	403200.0	3759044.2	54.0	3.50	4.00	1.63	YES
L0000706	0	0.34090E-07	403191.6	3759042.5	53.8	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
L0000707	0	0.34090E-07	403183.1	3759040.9	53.5	3.50	4.00	1.63	YES	
L0000708	0	0.34090E-07	403174.7	3759039.3	53.3	3.50	4.00	1.63	YES	
L0000709	0	0.34090E-07	403166.3	3759037.7	53.0	3.50	4.00	1.63	YES	
L0000710	0	0.34090E-07	403157.8	3759036.0	52.8	3.50	4.00	1.63	YES	
L0000711	0	0.34090E-07	403149.4	3759034.4	52.6	3.50	4.00	1.63	YES	
L0000712	0	0.34090E-07	403141.0	3759032.8	52.4	3.50	4.00	1.63	YES	
L0000713	0	0.34090E-07	403132.5	3759031.1	52.2	3.50	4.00	1.63	YES	
L0000714	0	0.40470E-07	403545.9	3759463.3	69.3	3.50	4.70	1.63	YES	
L0000715	0	0.40470E-07	403545.8	3759471.8	69.5	3.50	4.70	1.63	YES	
L0000716	0	0.40470E-07	403542.3	3759481.3	69.7	3.50	4.70	1.63	YES	
L0000717	0	0.40470E-07	403538.2	3759490.5	69.9	3.50	4.70	1.63	YES	
L0000718	0	0.40470E-07	403533.2	3759499.3	70.1	3.50	4.70	1.63	YES	
L0000719	0	0.40470E-07	403528.2	3759508.1	70.2	3.50	4.70	1.63	YES	
L0000720	0	0.40470E-07	403523.1	3759516.9	70.1	3.50	4.70	1.63	YES	
L0000721	0	0.40470E-07	403518.1	3759525.6	70.3	3.50	4.70	1.63	YES	

L0000722	0	0.40470E-07	403513.1	3759534.4	70.5	3.50	4.70	1.63	YES
L0000723	0	0.40470E-07	403508.1	3759543.2	70.8	3.50	4.70	1.63	YES
L0000724	0	0.40470E-07	403503.0	3759552.0	71.1	3.50	4.70	1.63	YES
L0000725	0	0.40470E-07	403498.0	3759560.8	71.1	3.50	4.70	1.63	YES
L0000726	0	0.40470E-07	403493.0	3759569.5	71.0	3.50	4.70	1.63	YES
L0000727	0	0.40470E-07	403488.0	3759578.3	71.0	3.50	4.70	1.63	YES
L0000728	0	0.40470E-07	403483.0	3759587.1	71.0	3.50	4.70	1.63	YES
L0000729	0	0.40470E-07	403478.0	3759595.9	71.1	3.50	4.70	1.63	YES
L0000730	0	0.40470E-07	403473.0	3759604.7	71.2	3.50	4.70	1.63	YES
L0000731	0	0.40470E-07	403468.0	3759613.5	71.4	3.50	4.70	1.63	YES
L0000732	0	0.40470E-07	403463.0	3759622.3	71.6	3.50	4.70	1.63	YES
L0000733	0	0.40470E-07	403458.0	3759631.1	71.8	3.50	4.70	1.63	YES
L0000734	0	0.40470E-07	403453.0	3759639.9	71.8	3.50	4.70	1.63	YES
L0000735	0	0.40470E-07	403447.6	3759648.4	71.9	3.50	4.70	1.63	YES
L0000736	0	0.40470E-07	403442.1	3759657.0	71.9	3.50	4.70	1.63	YES
L0000737	0	0.40470E-07	403436.7	3759665.5	72.0	3.50	4.70	1.63	YES
L0000738	0	0.40470E-07	403431.3	3759674.0	72.2	3.50	4.70	1.63	YES
L0000739	0	0.40470E-07	403425.8	3759682.6	72.3	3.50	4.70	1.63	YES
L0000740	0	0.40470E-07	403420.4	3759691.1	72.3	3.50	4.70	1.63	YES
L0000741	0	0.40470E-07	403415.0	3759699.6	72.3	3.50	4.70	1.63	YES
L0000742	0	0.40470E-07	403409.6	3759708.2	72.4	3.50	4.70	1.63	YES
L0000743	0	0.40470E-07	403404.1	3759716.7	72.5	3.50	4.70	1.63	YES
L0000744	0	0.40470E-07	403398.7	3759725.2	72.5	3.50	4.70	1.63	YES
L0000745	0	0.40470E-07	403393.6	3759733.9	72.5	3.50	4.70	1.63	YES
L0000746	0	0.40470E-07	403388.4	3759742.7	72.4	3.50	4.70	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
L0000747	0	0.40470E-07	403383.3	3759751.4	72.4	3.50	4.70	1.63	YES	
L0000748	0	0.40470E-07	403378.1	3759760.1	72.3	3.50	4.70	1.63	YES	
L0000749	0	0.40470E-07	403373.0	3759768.8	72.2	3.50	4.70	1.63	YES	
L0000750	0	0.40470E-07	403367.8	3759777.5	72.1	3.50	4.70	1.63	YES	
L0000751	0	0.40470E-07	403362.7	3759786.2	72.1	3.50	4.70	1.63	YES	
L0000752	0	0.40470E-07	403357.5	3759794.9	72.0	3.50	4.70	1.63	YES	
L0000753	0	0.40470E-07	403352.4	3759803.6	72.0	3.50	4.70	1.63	YES	
L0000754	0	0.40470E-07	403347.2	3759812.3	72.0	3.50	4.70	1.63	YES	
L0000755	0	0.40470E-07	403342.1	3759821.0	71.9	3.50	4.70	1.63	YES	
L0000756	0	0.40470E-07	403337.0	3759829.7	71.9	3.50	4.70	1.63	YES	
L0000757	0	0.40470E-07	403331.8	3759838.4	71.8	3.50	4.70	1.63	YES	
L0000758	0	0.40470E-07	403326.7	3759847.1	71.8	3.50	4.70	1.63	YES	

L0000759	0	0.40470E-07	403321.5	3759855.8	71.7	3.50	4.70	1.63	YES
L0000760	0	0.40470E-07	403316.4	3759864.6	71.7	3.50	4.70	1.63	YES
L0000761	0	0.40470E-07	403311.2	3759873.3	71.5	3.50	4.70	1.63	YES
L0000762	0	0.40470E-07	403306.1	3759882.0	71.4	3.50	4.70	1.63	YES
L0000763	0	0.40470E-07	403300.9	3759890.7	71.4	3.50	4.70	1.63	YES
L0000764	0	0.40470E-07	403295.8	3759899.4	71.3	3.50	4.70	1.63	YES
L0000765	0	0.40470E-07	403290.6	3759908.1	71.3	3.50	4.70	1.63	YES
L0000766	0	0.40470E-07	403285.5	3759916.8	71.3	3.50	4.70	1.63	YES
L0000767	0	0.40470E-07	403280.3	3759925.5	71.2	3.50	4.70	1.63	YES
L0000768	0	0.40470E-07	403275.2	3759934.2	71.2	3.50	4.70	1.63	YES
L0000769	0	0.40470E-07	403270.0	3759942.9	71.2	3.50	4.70	1.63	YES
L0000770	0	0.40470E-07	403264.9	3759951.6	71.2	3.50	4.70	1.63	YES
L0000771	0	0.40470E-07	403259.7	3759960.3	71.1	3.50	4.70	1.63	YES
L0000772	0	0.40470E-07	403254.6	3759969.0	71.0	3.50	4.70	1.63	YES
L0000773	0	0.40470E-07	403249.4	3759977.7	71.0	3.50	4.70	1.63	YES
L0000774	0	0.40470E-07	403244.3	3759986.5	71.0	3.50	4.70	1.63	YES
L0000775	0	0.40470E-07	403239.2	3759995.2	70.9	3.50	4.70	1.63	YES
L0000776	0	0.40470E-07	403234.0	3760003.9	70.9	3.50	4.70	1.63	YES
L0000777	0	0.40470E-07	403228.9	3760012.6	70.8	3.50	4.70	1.63	YES
L0000778	0	0.40470E-07	403223.7	3760021.3	70.8	3.50	4.70	1.63	YES
L0000779	0	0.40470E-07	403218.6	3760030.0	70.8	3.50	4.70	1.63	YES
L0000780	0	0.40470E-07	403213.4	3760038.7	70.7	3.50	4.70	1.63	YES
L0000781	0	0.40470E-07	403208.3	3760047.4	70.6	3.50	4.70	1.63	YES
L0000782	0	0.40470E-07	403203.1	3760056.1	70.5	3.50	4.70	1.63	YES
L0000783	0	0.40470E-07	403198.0	3760064.8	70.5	3.50	4.70	1.63	YES
L0000784	0	0.40470E-07	403192.8	3760073.5	70.5	3.50	4.70	1.63	YES
L0000785	0	0.40470E-07	403187.7	3760082.2	70.5	3.50	4.70	1.63	YES
L0000786	0	0.40470E-07	403182.5	3760090.9	70.5	3.50	4.70	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
L0000787	0	0.40470E-07	403177.4	3760099.6	70.4	3.50	4.70	1.63	YES	
L0000788	0	0.40470E-07	403172.2	3760108.4	70.4	3.50	4.70	1.63	YES	
L0000789	0	0.40470E-07	403167.1	3760117.1	70.5	3.50	4.70	1.63	YES	
L0000790	0	0.40470E-07	403161.9	3760125.8	70.5	3.50	4.70	1.63	YES	
L0000791	0	0.40470E-07	403156.8	3760134.5	70.4	3.50	4.70	1.63	YES	
L0000792	0	0.40470E-07	403151.6	3760143.2	70.3	3.50	4.70	1.63	YES	
L0000793	0	0.40470E-07	403146.5	3760151.9	70.3	3.50	4.70	1.63	YES	
L0000794	0	0.40470E-07	403141.3	3760160.6	70.3	3.50	4.70	1.63	YES	
L0000795	0	0.40470E-07	403136.2	3760169.3	70.3	3.50	4.70	1.63	YES	

L0000796	0	0.40470E-07	403131.1	3760178.0	70.2	3.50	4.70	1.63	YES
L0000797	0	0.40470E-07	403125.9	3760186.7	70.1	3.50	4.70	1.63	YES
L0000798	0	0.40470E-07	403120.8	3760195.4	70.0	3.50	4.70	1.63	YES
L0000799	0	0.40470E-07	403115.6	3760204.1	70.0	3.50	4.70	1.63	YES
L0000800	0	0.40470E-07	403110.5	3760212.8	70.1	3.50	4.70	1.63	YES
L0000801	0	0.40470E-07	403105.3	3760221.5	70.1	3.50	4.70	1.63	YES
L0000802	0	0.40470E-07	403100.2	3760230.3	70.2	3.50	4.70	1.63	YES
L0000803	0	0.40470E-07	403095.0	3760239.0	70.2	3.50	4.70	1.63	YES
L0000804	0	0.40470E-07	403089.9	3760247.7	70.3	3.50	4.70	1.63	YES
L0000805	0	0.40470E-07	403084.7	3760256.4	70.4	3.50	4.70	1.63	YES
L0000806	0	0.40470E-07	403079.6	3760265.1	70.4	3.50	4.70	1.63	YES
L0000807	0	0.40470E-07	403074.4	3760273.8	70.5	3.50	4.70	1.63	YES
L0000808	0	0.40470E-07	403069.3	3760282.5	70.7	3.50	4.70	1.63	YES
L0000809	0	0.40470E-07	403064.1	3760291.2	70.9	3.50	4.70	1.63	YES
L0000810	0	0.40470E-07	403059.0	3760299.9	71.0	3.50	4.70	1.63	YES
L0000811	0	0.40470E-07	403053.8	3760308.6	71.2	3.50	4.70	1.63	YES
L0000812	0	0.40470E-07	403048.7	3760317.3	71.3	3.50	4.70	1.63	YES
L0000813	0	0.40470E-07	403043.5	3760326.0	71.4	3.50	4.70	1.63	YES
L0000814	0	0.40470E-07	403038.4	3760334.7	71.2	3.50	4.70	1.63	YES
L0000815	0	0.40470E-07	403033.3	3760343.4	71.1	3.50	4.70	1.63	YES
L0000816	0	0.40470E-07	403028.1	3760352.1	71.0	3.50	4.70	1.63	YES
L0000817	0	0.40470E-07	403023.0	3760360.9	70.9	3.50	4.70	1.63	YES
L0000818	0	0.40470E-07	403017.8	3760369.6	71.0	3.50	4.70	1.63	YES
L0000819	0	0.40470E-07	403012.7	3760378.3	71.1	3.50	4.70	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , L0000547 , L0000548 , L0000549 ,
	L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 ,
	L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 ,
	L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , L0000573 ,
	L0000574 , L0000575 , L0000576 , L0000577 , L0000578 , L0000579 , L0000580 , L0000581 ,
	L0000582 , L0000583 , L0000584 , L0000585 , L0000586 , L0000587 , L0000588 , L0000589 ,
	L0000590 , L0000591 , L0000592 , L0000593 , L0000594 , L0000595 , L0000596 , L0000597 ,

L0000598 , L0000599 , L0000600 , L0000601 , L0000602 , L0000603 , L0000604 , L0000605 ,

L0000606 , L0000607 , L0000608 , L0000609 , L0000610 , L0000611 , L0000612 , L0000613 ,

L0000614 , L0000615 , L0000616 , L0000617 , L0000618 , L0000619 , L0000620 , L0000621 ,

L0000622 , L0000623 , L0000624 , L0000625 , L0000626 , L0000627 , L0000628 , L0000629 ,

L0000630 , L0000631 , L0000632 , L0000633 , L0000634 , L0000635 , L0000636 , L0000637 ,

L0000638 , L0000639 , L0000640 , L0000641 , L0000642 , L0000643 , L0000644 , L0000645 ,

L0000646 , L0000647 , L0000648 , L0000649 , L0000650 , L0000651 , L0000652 , L0000653 ,

L0000654 , L0000655 , L0000656 , L0000657 , L0000658 , L0000659 , L0000660 , L0000661 ,

L0000662 , L0000663 , L0000664 , L0000665 , L0000666 , L0000667 , L0000668 , L0000669 ,

L0000670 , L0000671 , L0000672 , L0000673 , L0000674 , L0000675 , L0000676 , L0000677 ,

L0000678 , L0000679 , L0000680 , L0000681 , L0000682 , L0000683 , L0000684 , L0000685 ,

L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 , L0000693 ,

L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 , L0000700 , L0000701 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID SOURCE IDs

L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 , L0000708 , L0000709 ,

L0000710 , L0000711 , L0000712 , L0000713 , L0000714 , L0000715 , L0000716 , L0000717 ,

L0000718 , L0000719 , L0000720 , L0000721 , L0000722 , L0000723 , L0000724 , L0000725 ,

L0000726 , L0000727 , L0000728 , L0000729 , L0000730 , L0000731 , L0000732 , L0000733 ,

L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 ,

L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 ,

L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 ,

L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 , L0000764 , L0000765 ,

L0000766 , L0000767 , L0000768 , L0000769 , L0000770 , L0000771 , L0000772 , L0000773 ,

L0000774 , L0000775 , L0000776 , L0000777 , L0000778 , L0000779 , L0000780 , L0000781 ,

L0000782 , L0000783 , L0000784 , L0000785 , L0000786 , L0000787 , L0000788 , L0000789 ,

L0000790 , L0000791 , L0000792 , L0000793 , L0000794 , L0000795 , L0000796 , L0000797 ,

L0000798 , L0000799 , L0000800 , L0000801 , L0000802 , L0000803 , L0000804 , L0000805 ,

L0000806 , L0000807 , L0000808 , L0000809 , L0000810 , L0000811 , L0000812 , L0000813 ,

L0000814 , L0000815 , L0000816 , L0000817 , L0000818 , L0000819 ,

*** 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 , L0000547 , L0000548 , L0000549 ,

L0000550 , L0000551 , L0000552 , L0000553 , L0000554 , L0000555 , L0000556 , L0000557 ,

L0000558 , L0000559 , L0000560 , L0000561 , L0000562 , L0000563 , L0000564 , L0000565 ,

L0000566 , L0000567 , L0000568 , L0000569 , L0000570 , L0000571 , L0000572 , L0000573 ,

L0000574 , L0000575 , L0000576 , L0000577 , L0000578 , L0000579 , L0000580 , L0000581 ,

L0000582 , L0000583 , L0000584 , L0000585 , L0000586 , L0000587 , L0000588 , L0000589 ,

L0000590 , L0000591 , L0000592 , L0000593 , L0000594 , L0000595 , L0000596 , L0000597 ,

L0000598 , L0000599 , L0000600 , L0000601 , L0000602 , L0000603 , L0000604 , L0000605 ,

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L0000614 , L0000615 , L0000616 , L0000617 , L0000618 , L0000619 , L0000620 , L0000621 ,

L0000622 , L0000623 , L0000624 , L0000625 , L0000626 , L0000627 , L0000628 , L0000629 ,

L0000630 , L0000631 , L0000632 , L0000633 , L0000634 , L0000635 , L0000636 , L0000637 ,

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L0000662 , L0000663 , L0000664 , L0000665 , L0000666 , L0000667 , L0000668 , L0000669 ,

L0000670 , L0000671 , L0000672 , L0000673 , L0000674 , L0000675 , L0000676 , L0000677 ,

L0000678 , L0000679 , L0000680 , L0000681 , L0000682 , L0000683 , L0000684 , L0000685 ,

L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 , L0000692 , L0000693 ,

L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 , L0000700 , L0000701 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 , L0000708 , L0000709 ,

L0000710 , L0000711 , L0000712 , L0000713 , L0000714 , L0000715 , L0000716 , L0000717 ,

L0000718 , L0000719 , L0000720 , L0000721 , L0000722 , L0000723 , L0000724 , L0000725 ,

L0000726 , L0000727 , L0000728 , L0000729 , L0000730 , L0000731 , L0000732 , L0000733 ,

L0000734 , L0000735 , L0000736 , L0000737 , L0000738 , L0000739 , L0000740 , L0000741 ,

L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 ,

L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 ,

L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 , L0000764 , L0000765 ,

L0000766 , L0000767 , L0000768 , L0000769 , L0000770 , L0000771 , L0000772 , L0000773 ,

L0000774 , L0000775 , L0000776 , L0000777 , L0000778 , L0000779 , L0000780 , L0000781 ,

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-17.3,	-34.3,	2	10.7,	215.4,	251.4,	-23.3,	-13.7,
3	10.7,	200.8,	258.9,	-28.7,	6.4,	4	10.7,	182.0,	258.5,	-33.1,	25.4,
5	10.7,	157.6,	250.3,	-36.6,	43.6,	6	10.7,	128.7,	238.5,	-39.7,	60.4,
7	10.7,	150.6,	242.1,	-47.8,	78.5,	8	10.7,	185.1,	238.4,	-54.5,	88.7,
9	10.7,	213.9,	228.2,	-60.3,	96.2,	10	10.7,	236.2,	225.2,	-78.3,	100.8,
11	10.7,	251.4,	215.4,	-94.0,	102.4,	12	10.7,	258.9,	200.8,	-106.8,	100.8,
13	10.7,	258.5,	182.0,	-116.4,	96.1,	14	10.7,	250.3,	157.6,	-122.4,	88.6,
15	10.7,	238.5,	128.7,	-124.7,	79.5,	16	10.7,	242.1,	150.6,	-153.8,	73.2,
17	10.7,	238.4,	185.1,	-181.3,	64.7,	18	10.7,	228.2,	213.9,	-203.2,	53.8,
19	10.7,	225.2,	236.2,	-219.0,	34.3,	20	10.7,	215.4,	251.4,	-228.1,	13.7,
21	10.7,	200.8,	258.9,	-230.2,	-6.4,	22	10.7,	182.0,	258.5,	-225.4,	-25.4,
23	10.7,	157.6,	250.3,	-213.7,	-43.6,	24	10.7,	128.7,	238.5,	-198.8,	-60.4,
25	10.7,	150.6,	242.1,	-194.3,	-78.5,	26	10.7,	185.1,	238.4,	-183.9,	-88.7,
27	10.7,	213.9,	228.2,	-168.0,	-96.2,	28	10.7,	236.2,	225.2,	-146.9,	-100.8,
29	10.7,	251.4,	215.4,	-121.4,	-102.4,	30	10.7,	258.9,	200.8,	-94.0,	-100.8,
31	10.7,	258.5,	182.0,	-65.6,	-96.1,	32	10.7,	250.3,	157.6,	-35.2,	-88.6,
33	10.7,	238.5,	128.7,	-4.0,	-79.5,	34	10.7,	242.1,	150.6,	3.2,	-73.2,
35	10.7,	238.4,	185.1,	-3.8,	-64.7,	36	10.7,	228.2,	213.9,	-10.7,	-53.8,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-60.6,	21.5,	2	10.7,	215.4,	251.4,	-75.6,	33.7,
3	10.7,	200.8,	258.9,	-88.4,	44.0,	4	10.7,	182.0,	258.5,	-98.5,	52.0,
5	10.7,	157.6,	250.3,	-105.6,	58.4,	6	10.7,	128.7,	238.5,	-110.3,	63.0,
7	10.7,	150.6,	242.1,	-117.8,	68.9,	8	10.7,	185.1,	238.4,	-121.7,	67.1,
9	10.7,	213.9,	228.2,	-122.7,	63.3,	10	10.7,	236.2,	225.2,	-134.1,	57.5,
11	10.7,	251.4,	215.4,	-141.4,	50.0,	12	10.7,	258.9,	200.8,	-144.4,	41.0,
13	10.7,	258.5,	182.0,	-143.0,	30.8,	14	10.7,	250.3,	157.6,	-137.2,	19.6,
15	10.7,	238.5,	128.7,	-127.3,	9.0,	16	10.7,	242.1,	150.6,	-144.2,	3.3,
17	10.7,	238.4,	185.1,	-159.6,	-2.5,	18	10.7,	228.2,	213.9,	-170.2,	-8.6,

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  19   10.7,  225.2,  236.2, -175.6,  -21.5,     20   10.7,  215.4,  251.4, -175.7,  -33.7,
  21   10.7,  200.8,  258.9, -170.5,  -44.0,     22   10.7,  182.0,  258.5, -160.0,  -52.0,
  23   10.7,  157.6,  250.3, -144.7,  -58.4,     24   10.7,  128.7,  238.5, -128.2,  -63.0,
  25   10.7,  150.6,  242.1, -124.4,  -68.9,     26   10.7,  185.1,  238.4, -116.7,  -67.1,
  27   10.7,  213.9,  228.2, -105.5,  -63.3,     28   10.7,  236.2,  225.2,  -91.1,  -57.5,
  29   10.7,  251.4,  215.4,  -74.0,  -50.0,     30   10.7,  258.9,  200.8,  -56.4,  -41.0,
  31   10.7,  258.5,  182.0,  -39.0,  -30.8,     32   10.7,  250.3,  157.6,  -20.4,  -19.6,
  33   10.7,  238.5,  128.7,   -1.3,   -9.0,     34   10.7,  242.1,  150.6,   -6.4,   -3.3,
  35   10.7,  238.4,  185.1,  -25.4,    2.5,     36   10.7,  228.2,  213.9,  -43.7,    8.6,


SOURCE ID: STCK3
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   10.7,  225.2,  236.2,  -30.3,  -15.3,      2   10.7,  215.4,  251.4,  -39.5,    2.7,
   3   10.7,  200.8,  258.9,  -47.4,   19.8,      4   10.7,  182.0,  258.5,  -53.9,   35.3,
   5   10.7,  157.6,  250.3,  -58.8,   49.7,      6   10.7,  128.7,  238.5,  -62.6,   62.5,
   7   10.7,  150.6,  242.1,  -70.8,   76.7,      8   10.7,  185.1,  238.4,  -76.8,   82.9,
   9   10.7,  213.9,  228.2,  -81.2,   86.7,     10   10.7,  236.2,  225.2,  -97.3,   87.8,
  11   10.7,  251.4,  215.4, -110.4,   86.2,     12   10.7,  258.9,  200.8, -120.1,   82.0,
  13   10.7,  258.5,  182.0, -126.2,   75.4,     14   10.7,  250.3,  157.6, -128.5,   66.4,
  15   10.7,  238.5,  128.7, -126.9,   56.6,     16   10.7,  242.1,  150.6, -152.0,   50.3,
  17   10.7,  238.4,  185.1, -175.5,   42.4,     18   10.7,  228.2,  213.9, -193.6,   32.9,
  19   10.7,  225.2,  236.2, -205.9,   15.3,     20   10.7,  215.4,  251.4, -211.9,   -2.7,
  21   10.7,  200.8,  258.9, -211.5,  -19.8,     22   10.7,  182.0,  258.5, -204.6,  -35.3,
  23   10.7,  157.6,  250.3, -191.6,  -49.7,     24   10.7,  128.7,  238.5, -175.9,  -62.5,
  25   10.7,  150.6,  242.1, -171.4,  -76.7,     26   10.7,  185.1,  238.4, -161.7,  -82.9,
  27   10.7,  213.9,  228.2, -147.0,  -86.7,     28   10.7,  236.2,  225.2, -127.9,  -87.8,
  29   10.7,  251.4,  215.4, -105.0,  -86.2,     30   10.7,  258.9,  200.8,  -80.6,  -82.0,
  31   10.7,  258.5,  182.0,  -55.7,  -75.4,     32   10.7,  250.3,  157.6,  -29.1,  -66.4,
  33   10.7,  238.5,  128.7,   -1.8,  -56.6,     34   10.7,  242.1,  150.6,    1.4,  -50.3,
  35   10.7,  238.4,  185.1,   -9.6,  -42.4,     36   10.7,  228.2,  213.9,  -20.3,  -32.9,


SOURCE ID: STCK4
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   10.7,  225.2,  236.2,  -83.5,   47.3,      2   10.7,  215.4,  251.4, -102.7,   55.1,
   3   10.7,  200.8,  258.9, -118.8,   60.4,      4   10.7,  182.0,  258.5, -131.3,   62.9,
   5   10.7,  157.6,  250.3, -139.7,   63.5,      6   10.7,  128.7,  238.5, -144.8,   62.0,
   7   10.7,  150.6,  242.1, -151.6,   61.9,      8   10.7,  185.1,  238.4, -153.8,   54.4,
   9   10.7,  213.9,  228.2, -152.1,   45.2,     10   10.7,  236.2,  225.2, -159.9,   34.6,
  11   10.7,  251.4,  215.4, -162.8,   23.0,     12   10.7,  258.9,  200.8, -160.8,   10.7,
  13   10.7,  258.5,  182.0, -153.9,   -2.0,     14   10.7,  250.3,  157.6, -142.3,  -14.6,
  15   10.7,  238.5,  128.7, -126.4,  -25.6,     16   10.7,  242.1,  150.6, -137.2,  -30.5,
  17   10.7,  238.4,  185.1, -146.9,  -34.6,     18   10.7,  228.2,  213.9, -152.1,  -38.0,
  19   10.7,  225.2,  236.2, -152.7,  -47.3,     20   10.7,  215.4,  251.4, -148.7,  -55.1,
  21   10.7,  200.8,  258.9, -140.1,  -60.4,     22   10.7,  182.0,  258.5, -127.3,  -62.9,
  23   10.7,  157.6,  250.3, -110.6,  -63.5,     24   10.7,  128.7,  238.5,  -93.7,  -62.0,
  25   10.7,  150.6,  242.1,  -90.5,  -61.9,     26   10.7,  185.1,  238.4,  -84.6,  -54.4,
  27   10.7,  213.9,  228.2,  -76.1,  -45.2,     28   10.7,  236.2,  225.2,  -65.3,  -34.6,
  29   10.7,  251.4,  215.4,  -52.5,  -23.0,     30   10.7,  258.9,  200.8,  -40.0,  -10.7,
  31   10.7,  258.5,  182.0,  -28.1,    2.0,     32   10.7,  250.3,  157.6,  -15.3,   14.6,
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33	10.7,	238.5,	128.7,	-2.3,	25.6,	34	10.7,	242.1,	150.6,	-13.4,	30.5,
35	10.7,	238.4,	185.1,	-38.1,	34.6,	36	10.7,	228.2,	213.9,	-61.8,	38.0,

*** 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	10.7,	225.2,	236.2,	-95.8,	86.2,	2	10.7,	215.4,	251.4,	-121.5,	91.3,
3	10.7,	200.8,	258.9,	-143.6,	92.8,	4	10.7,	182.0,	258.5,	-161.3,	90.5,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	10.7,	150.6,	242.1,	-191.4,	70.8,	8	10.7,	185.1,	238.4,	-194.6,	56.2,
9	10.7,	213.9,	228.2,	-192.5,	39.9,	10	10.7,	236.2,	225.2,	-198.8,	22.4,
11	10.7,	251.4,	215.4,	-199.0,	4.2,	12	10.7,	258.9,	200.8,	-193.1,	-14.2,
13	10.7,	258.5,	182.0,	-181.4,	-32.0,	14	10.7,	250.3,	157.6,	-164.2,	-49.0,
15	10.7,	238.5,	128.7,	-142.0,	-63.2,	16	10.7,	242.1,	150.6,	-146.1,	-70.3,
17	10.7,	238.4,	185.1,	-148.7,	-75.3,	18	10.7,	228.2,	213.9,	-146.8,	-78.4,
19	10.7,	225.2,	236.2,	-140.5,	-86.2,	20	10.7,	215.4,	251.4,	-129.8,	-91.3,
21	10.7,	200.8,	258.9,	-115.3,	-92.8,	22	10.7,	182.0,	258.5,	-97.2,	-90.5,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	10.7,	150.6,	242.1,	-50.7,	-70.8,	26	10.7,	185.1,	238.4,	-43.9,	-56.2,
27	10.7,	213.9,	228.2,	-35.7,	-39.9,	28	10.7,	236.2,	225.2,	-26.4,	-22.4,
29	10.7,	251.4,	215.4,	-16.4,	-4.2,	30	10.7,	258.9,	200.8,	-7.6,	14.2,
31	10.7,	258.5,	182.0,	-0.5,	32.0,	32	10.7,	250.3,	157.6,	6.6,	49.0,
33	10.7,	238.5,	128.7,	13.3,	63.2,	34	10.7,	242.1,	150.6,	-4.5,	70.3,
35	10.7,	238.4,	185.1,	-36.4,	75.3,	36	10.7,	228.2,	213.9,	-67.1,	78.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

402680.3, 402746.2, 402812.2, 402878.1, 402944.0, 403010.0, 403075.9, 403141.8, 403207.8, 403273.7,
403339.6, 403405.5, 403471.5, 403537.4, 403603.3, 403669.3, 403735.2, 403801.1, 403867.1, 403933.0,
403998.9,

*** Y-COORDINATES OF GRID ***

(METERS)

3759000.9, 3759070.5, 3759140.2, 3759209.8, 3759279.4, 3759349.0, 3759418.7, 3759488.3, 3759557.9, 3759627.6,
3759697.2, 3759766.8, 3759836.5, 3759906.1, 3759975.7, 3760045.4, 3760115.0, 3760184.6, 3760254.2, 3760323.9,
3760393.5,

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	65.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	56.20	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	59.50
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	55.00	55.10	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)

(METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	84.30	85.20	87.50	88.10	90.20	92.90
3760323.87	76.50	78.70	80.70	82.30	83.80	84.90	86.10	88.80	90.70
3760254.24	75.30	77.80	78.80	80.80	82.10	83.20	84.90	87.20	89.70
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	84.00	86.10	88.20
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	87.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	66.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 403867.06	403932.99	403998.92
3760393.50	94.90	97.60	99.60
3760323.87	92.60	95.30	97.80
3760254.24	91.60	94.30	96.20
3760184.61	91.00	92.90	95.10
3760114.98	90.20	92.20	94.00
3760045.35	89.50	91.10	93.10
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60
3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90

3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	67.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	59.00	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	62.60
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	57.50	56.80	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	324.50	361.90	361.90	361.90	361.90	361.90
3760323.87	76.50	78.70	80.70	82.30	324.50	361.90	361.90	361.90	361.90
3760254.24	75.30	77.80	78.80	80.80	82.10	324.70	324.70	361.90	361.90
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	324.50	324.70	336.70
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	323.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	70.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	403867.06	403932.99	403998.92
3760393.50	361.90	361.90	361.90
3760323.87	361.90	361.90	361.90
3760254.24	361.90	361.90	361.90
3760184.61	361.10	361.90	361.90
3760114.98	324.50	324.70	336.70
3760045.35	89.50	91.10	323.90
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60

3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90
3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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

(403076.6, 3759566.9,	63.0,	63.0,	0.0);	(403074.6, 3759594.7,	63.1,	63.1,	0.0);
(403074.3, 3759652.4,	63.8,	63.8,	0.0);	(403036.2, 3759545.2,	61.6,	61.6,	0.0);
(403491.1, 3759689.7,	73.7,	73.7,	0.0);	(403558.2, 3759512.8,	71.0,	71.0,	0.0);
(403587.6, 3759479.4,	70.9,	70.9,	0.0);	(403471.1, 3759691.3,	73.3,	73.3,	0.0);
(403097.0, 3760166.2,	69.1,	69.1,	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)
L0000551	403339.6	3759627.6	0.57
L0000552	403339.6	3759627.6	-7.10
L0000553	403339.6	3759627.6	-0.35
L0000569	403207.8	3759557.9	-4.23
L0000570	403207.8	3759557.9	-2.88
L0000577	403405.5	3759627.6	-4.59
L0000578	403405.5	3759627.6	-3.45
L0000608	403537.4	3759418.7	0.82
L0000636	403669.3	3759209.8	-3.56
L0000637	403669.3	3759209.8	-5.02
L0000688	403339.6	3759070.5	-4.58

L0000689	403339.6	3759070.5	-3.94
L0000716	403537.4	3759488.3	-1.57
L0000717	403537.4	3759488.3	-7.74
L0000732	403471.5	3759627.6	-0.10
L0000741	403405.5	3759697.2	-0.35
L0000756	403339.6	3759836.5	-2.86
L0000757	403339.6	3759836.5	-2.05
L0000780	403207.8	3760045.4	-1.37
L0000781	403207.8	3760045.4	-7.99
L0000805	403075.9	3760254.2	-1.02

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1
```

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

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

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

```
  Surface file:   E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC                          Met Version:  16216
  Profile file:   E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:     3166                  Upper air station no.:     3190
                Name: UNKNOWN                                 Name: UNKNOWN
                Year:   2010                                  Year:   2010
```

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
10	01	01	1	01	-38.6	0.384	-9.000	-9.000	-999.	572.	162.4	0.34	0.73	1.00	3.10	321.	9.1	283.8	5.5
10	01	01	1	02	-33.5	0.333	-9.000	-9.000	-999.	462.	121.8	0.34	0.73	1.00	2.70	217.	9.1	282.5	5.5
10	01	01	1	03	-21.9	0.218	-9.000	-9.000	-999.	251.	52.2	0.34	0.73	1.00	1.80	290.	9.1	282.5	5.5
10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10	01	01	1	09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10	01	01	1	10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10	01	01	1	11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10	01	01	1	12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10	01	01	1	13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10	01	01	1	14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10	01	01	1	15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10	01	01	1	16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10	01	01	1	17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10	01	01	1	18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10	01	01	1	19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10	01	01	1	20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73	1.00	1.30	25.	9.1	287.0	5.5
10	01	01	1	21	-21.6	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	343.	9.1	285.9	5.5
10	01	01	1	22	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	332.	9.1	284.9	5.5
10	01	01	1	23	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	178.	9.1	284.2	5.5
10	01	01	1	24	-11.8	0.154	-9.000	-9.000	-999.	145.	27.6	0.34	0.73	1.00	1.30	28.	9.1	283.1	5.5

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	283.8	99.0	-99.00	-99.00
10	01	01	01	9.1	1	321.	3.10	-999.0	99.0	-99.00	-99.00

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

*** 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 ,
L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 ,
L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 ,
L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	0.00007	0.00008	0.00009	0.00011	0.00014	0.00029	0.00020	0.00017	0.00016
3760323.87	0.00008	0.00009	0.00011	0.00013	0.00017	0.00032	0.00039	0.00024	0.00021
3760254.24	0.00009	0.00010	0.00012	0.00015	0.00019	0.00026	0.00057	0.00035	0.00027
3760184.61	0.00010	0.00011	0.00014	0.00017	0.00021	0.00027	0.00038	0.00069	0.00037
3760114.98	0.00011	0.00013	0.00016	0.00019	0.00024	0.00029	0.00037	0.00059	0.00055
3760045.35	0.00012	0.00014	0.00017	0.00022	0.00027	0.00033	0.00041	0.00051	0.00078
3759975.72	0.00013	0.00016	0.00019	0.00024	0.00030	0.00038	0.00047	0.00057	0.00074
3759906.09	0.00014	0.00017	0.00021	0.00026	0.00033	0.00042	0.00053	0.00066	0.00081
3759836.46	0.00015	0.00018	0.00023	0.00029	0.00036	0.00047	0.00060	0.00080	0.00108
3759766.83	0.00015	0.00019	0.00024	0.00031	0.00039	0.00050	0.00068	0.00111	0.00129
3759697.20	0.00016	0.00020	0.00026	0.00032	0.00041	0.00053	0.00078	0.00102	0.00141
3759627.57	0.00016	0.00021	0.00026	0.00033	0.00042	0.00057	0.00095	0.00097	0.00173
3759557.94	0.00016	0.00020	0.00026	0.00033	0.00043	0.00061	0.00096	0.00163	0.00242
3759488.31	0.00015	0.00019	0.00025	0.00032	0.00043	0.00062	0.00098	0.00157	0.00162
3759418.68	0.00015	0.00019	0.00024	0.00032	0.00043	0.00061	0.00083	0.00092	0.00079
3759349.05	0.00014	0.00018	0.00023	0.00030	0.00041	0.00053	0.00059	0.00058	0.00051
3759279.42	0.00013	0.00016	0.00021	0.00027	0.00035	0.00042	0.00042	0.00038	0.00035
3759209.79	0.00012	0.00015	0.00019	0.00023	0.00028	0.00030	0.00030	0.00028	0.00028
3759140.16	0.00011	0.00013	0.00016	0.00019	0.00021	0.00023	0.00023	0.00024	0.00026
3759070.53	0.00010	0.00011	0.00013	0.00015	0.00016	0.00018	0.00019	0.00028	0.00041
3759000.90	0.00008	0.00010	0.00011	0.00012	0.00013	0.00014	0.00016	0.00025	0.00026

*** 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 ,
L0000547 , L0000548 , L0000549 , L0000550 , L0000551 , L0000552 , L0000553 , L0000554 ,
L0000555 , L0000556 , L0000557 , L0000558 , L0000559 , L0000560 , L0000561 , L0000562 ,
L0000563 , L0000564 , L0000565 , L0000566 , L0000567 , L0000568 , L0000569 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	0.00016	0.00016	0.00015	0.00014	0.00013	0.00012	0.00011	0.00010	0.00009
3760323.87	0.00020	0.00019	0.00018	0.00017	0.00016	0.00014	0.00013	0.00012	0.00011
3760254.24	0.00025	0.00024	0.00023	0.00021	0.00019	0.00017	0.00015	0.00014	0.00012
3760184.61	0.00033	0.00031	0.00028	0.00026	0.00023	0.00020	0.00018	0.00016	0.00014
3760114.98	0.00043	0.00039	0.00036	0.00032	0.00028	0.00024	0.00021	0.00018	0.00015

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 3760045.35 |       0.00058      0.00051      0.00045      0.00040      0.00034      0.00029      0.00024      0.00020      0.00017
 3759975.72 |       0.00091      0.00068      0.00058      0.00049      0.00042      0.00034      0.00028      0.00022      0.00018
 3759906.09 |       0.00114      0.00094      0.00076      0.00062      0.00050      0.00039      0.00030      0.00023      0.00018
 3759836.46 |       0.00126      0.00138      0.00102      0.00077      0.00057      0.00042      0.00031      0.00023      0.00018
 3759766.83 |       0.00155      0.00170      0.00148      0.00090      0.00060      0.00042      0.00030      0.00022      0.00017
 3759697.20 |       0.00186      0.00157      0.00193      0.00096      0.00059      0.00040      0.00029      0.00021      0.00016
 3759627.57 |       0.00224      0.00231      0.00192      0.00118      0.00059      0.00039      0.00028      0.00021      0.00016
 3759557.94 |       0.00201      0.00151      0.00130      0.00129      0.00072      0.00041      0.00028      0.00021      0.00016
 3759488.31 |       0.00128      0.00099      0.00089      0.00147      0.00094      0.00044      0.00029      0.00021      0.00016
 3759418.68 |       0.00069      0.00064      0.00061      0.00066      0.00088      0.00047      0.00030      0.00022      0.00016
 3759349.05 |       0.00046      0.00045      0.00044      0.00044      0.00048      0.00072      0.00033      0.00023      0.00017
 3759279.42 |       0.00034      0.00034      0.00034      0.00034      0.00035      0.00051      0.00041      0.00025      0.00017
 3759209.79 |       0.00028      0.00029      0.00029      0.00030      0.00031      0.00035      0.00056      0.00027      0.00017
 3759140.16 |       0.00027      0.00030      0.00032      0.00036      0.00041      0.00053      0.00071      0.00027      0.00015
 3759070.53 |       0.00060      0.00052      0.00057      0.00040      0.00032      0.00027      0.00023      0.00017      0.00013
 3759000.90 |       0.00024      0.00022      0.00021      0.00019      0.00018      0.00016      0.00015      0.00013      0.00011

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                                  ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2026 to 2039                                   ***        17:49:17
                                                                                                                       PAGE  29
*** 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       ,
                 L0000547    , L0000548    , L0000549    , L0000550    , L0000551    , L0000552    , L0000553    , L0000554    ,
                 L0000555    , L0000556    , L0000557    , L0000558    , L0000559    , L0000560    , L0000561    , L0000562    ,
                 L0000563    , L0000564    , L0000565    , L0000566    , L0000567    , L0000568    , L0000569    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     403867.06    403932.99    403998.92
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3760393.50 |       0.00008      0.00008      0.00007
 3760323.87 |       0.00010      0.00009      0.00008
 3760254.24 |       0.00011      0.00009      0.00008
 3760184.61 |       0.00012      0.00010      0.00009
 3760114.98 |       0.00013      0.00011      0.00009
 3760045.35 |       0.00014      0.00011      0.00009
 3759975.72 |       0.00014      0.00011      0.00009
 3759906.09 |       0.00014      0.00011      0.00009
 3759836.46 |       0.00014      0.00011      0.00009
 3759766.83 |       0.00013      0.00011      0.00009
 3759697.20 |       0.00013      0.00010      0.00008
 3759627.57 |       0.00012      0.00010      0.00008
 3759557.94 |       0.00012      0.00010      0.00008
 3759488.31 |       0.00013      0.00010      0.00008
 3759418.68 |       0.00013      0.00010      0.00009
```

```
 3759349.05 |       0.00013      0.00011      0.00008
 3759279.42 |       0.00013      0.00010      0.00008
 3759209.79 |       0.00013      0.00010      0.00008
 3759140.16 |       0.00012      0.00010      0.00008
 3759070.53 |       0.00011      0.00009      0.00007
 3759000.90 |       0.00009      0.00008      0.00007

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2026 to 2039                           ***        17:49:17
                                                                                                               PAGE  30
*** 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       ,
               L0000547    , L0000548    , L0000549    , L0000550    , L0000551    , L0000552    , L0000553    , L0000554    ,
               L0000555    , L0000556    , L0000557    , L0000558    , L0000559    , L0000560    , L0000561    , L0000562    ,
               L0000563    , L0000564    , L0000565    , L0000566    , L0000567    , L0000568    , L0000569    ,  . . .      ,

                                    *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       403076.63    3759566.89        0.00097                     403074.61    3759594.66        0.00095
       403074.33    3759652.43        0.00091                     403036.23    3759545.23        0.00071
       403491.13    3759689.69        0.00082                     403558.25    3759512.77        0.00069
       403587.63    3759479.41        0.00052                     403471.13    3759691.31        0.00097
       403096.96    3760166.19        0.00044

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2026 to 2039                           ***        17:49:17
                                                                                                               PAGE  31
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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


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

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

ALL       1ST HIGHEST VALUE IS      0.00242 AT (  403207.76,  3759557.94,    66.70,    66.70,    0.00)  GC  UCART1
          2ND HIGHEST VALUE IS      0.00231 AT (  403339.62,  3759627.57,    68.10,    68.10,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS      0.00224 AT (  403273.69,  3759627.57,    67.70,    67.70,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS      0.00201 AT (  403273.69,  3759557.94,    66.40,    66.40,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS      0.00193 AT (  403405.55,  3759697.20,    72.10,    72.10,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS      0.00192 AT (  403405.55,  3759627.57,    70.40,    70.40,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS      0.00186 AT (  403273.69,  3759697.20,    68.00,    68.00,    0.00)  GC  UCART1
```

```
         8TH HIGHEST VALUE IS       0.00173 AT (  403207.76,  3759627.57,    67.30,    67.30,    0.00)  GC  UCART1
         9TH HIGHEST VALUE IS       0.00170 AT (  403339.62,  3759766.83,    71.30,    71.30,    0.00)  GC  UCART1
        10TH HIGHEST VALUE IS       0.00163 AT (  403141.83,  3759557.94,    66.20,    66.20,    0.00)  GC  UCART1


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

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2026 to 2039                           ***        17:49:17
                                                                                                               PAGE  32
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of            0 Fatal Error Message(s)
A Total of            9 Warning Message(s)
A Total of         1277 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          152 Calm Hours Identified

A Total of         1125 Missing Hours Identified (  2.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     408        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     409        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     410        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     411        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     412        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186     896       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     896       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:      15010101
MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

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

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 2/10/2022
** File: C:\Lakes\AERMOD View\19391 Whittier Blvd BP 2nd 14YR\19391 Whittier Blvd BP 2nd 14YR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE 19391 Whittier Blvd BP
   TITLETWO DPM Concentrations Years 2040 to 2053
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 9818605 Los_Angeles_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "19391 Whittier Blvd BP 2nd 14YR.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION STCK1        POINT      403193.640  3759565.730       66.820
** DESCRSRC Truck idling Location
   LOCATION STCK2        POINT      403256.045  3759598.705       67.440
** DESCRSRC Truck idling Location
   LOCATION STCK3        POINT      403214.561  3759575.303       66.930
** DESCRSRC Truck idling Location
   LOCATION STCK4        POINT      403285.474  3759616.787       67.600
** DESCRSRC Truck idling Location
   LOCATION STCK5        POINT      403325.895  3759622.106       67.810
** DESCRSRC Truck idling Location
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-site truck travel
```

```
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.39E-06
** Elevated
** Building Height = 10.67
** SZINIT = 4.96
** Nodes = 6
** 403375.398, 3759658.946, 69.18, 3.50, 4.00
** 403366.638, 3759651.020, 68.32, 3.50, 4.00
** 403359.964, 3759643.512, 68.04, 3.50, 4.00
** 403352.039, 3759636.003, 68.03, 3.50, 4.00
** 403321.587, 3759619.318, 67.72, 3.50, 4.00
** 403188.103, 3759543.816, 66.04, 3.50, 4.00
** ------------------------------------------------------------------
   LOCATION L0000820     VOLUME   403372.213 3759656.064 68.90
   LOCATION L0000821     VOLUME   403365.926 3759650.218 68.32
   LOCATION L0000822     VOLUME   403360.218 3759643.798 68.11
   LOCATION L0000823     VOLUME   403354.005 3759637.867 68.17
   LOCATION L0000824     VOLUME   403346.880 3759633.177 68.10
   LOCATION L0000825     VOLUME   403339.346 3759629.049 68.04
   LOCATION L0000826     VOLUME   403331.812 3759624.921 67.93
   LOCATION L0000827     VOLUME   403324.279 3759620.793 67.77
   LOCATION L0000828     VOLUME   403316.781 3759616.599 67.69
   LOCATION L0000829     VOLUME   403309.303 3759612.370 67.68
   LOCATION L0000830     VOLUME   403301.826 3759608.140 67.64
   LOCATION L0000831     VOLUME   403294.348 3759603.911 67.57
   LOCATION L0000832     VOLUME   403286.871 3759599.681 67.53
   LOCATION L0000833     VOLUME   403279.393 3759595.452 67.48
   LOCATION L0000834     VOLUME   403271.916 3759591.222 67.43
   LOCATION L0000835     VOLUME   403264.438 3759586.993 67.38
   LOCATION L0000836     VOLUME   403256.961 3759582.763 67.27
   LOCATION L0000837     VOLUME   403249.483 3759578.534 67.16
   LOCATION L0000838     VOLUME   403242.006 3759574.304 67.06
   LOCATION L0000839     VOLUME   403234.528 3759570.075 66.94
   LOCATION L0000840     VOLUME   403227.051 3759565.846 66.85
   LOCATION L0000841     VOLUME   403219.573 3759561.616 66.80
   LOCATION L0000842     VOLUME   403212.096 3759557.387 66.75
   LOCATION L0000843     VOLUME   403204.618 3759553.157 66.59
   LOCATION L0000844     VOLUME   403197.140 3759548.928 66.29
   LOCATION L0000845     VOLUME   403189.663 3759544.698 66.05
** End of LINE VOLUME Source ID = SLINE1
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Offsite from Project dwy s/b along Whitter Frontage Rd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.77E-06
** Elevated
```

```
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 4
** 403383.146, 3759663.541, 69.95, 3.50, 4.00
** 403507.316, 3759446.613, 68.09, 3.50, 4.00
** 403511.242, 3759446.613, 68.15, 3.50, 4.00
** 403520.076, 3759451.030, 68.52, 3.50, 4.00
** ----------------------------------------------------------------------
   LOCATION L0000846     VOLUME   403385.280 3759659.813 70.03
   LOCATION L0000847     VOLUME   403389.548 3759652.357 69.98
   LOCATION L0000848     VOLUME   403393.816 3759644.901 70.08
   LOCATION L0000849     VOLUME   403398.083 3759637.446 70.40
   LOCATION L0000850     VOLUME   403402.351 3759629.990 70.43
   LOCATION L0000851     VOLUME   403406.619 3759622.534 70.34
   LOCATION L0000852     VOLUME   403410.886 3759615.078 70.21
   LOCATION L0000853     VOLUME   403415.154 3759607.622 70.06
   LOCATION L0000854     VOLUME   403419.422 3759600.167 69.93
   LOCATION L0000855     VOLUME   403423.689 3759592.711 69.84
   LOCATION L0000856     VOLUME   403427.957 3759585.255 69.78
   LOCATION L0000857     VOLUME   403432.225 3759577.799 69.72
   LOCATION L0000858     VOLUME   403436.492 3759570.343 69.64
   LOCATION L0000859     VOLUME   403440.760 3759562.888 69.55
   LOCATION L0000860     VOLUME   403445.028 3759555.432 69.44
   LOCATION L0000861     VOLUME   403449.295 3759547.976 69.28
   LOCATION L0000862     VOLUME   403453.563 3759540.520 69.16
   LOCATION L0000863     VOLUME   403457.831 3759533.065 69.03
   LOCATION L0000864     VOLUME   403462.098 3759525.609 68.88
   LOCATION L0000865     VOLUME   403466.366 3759518.153 68.78
   LOCATION L0000866     VOLUME   403470.634 3759510.697 68.77
   LOCATION L0000867     VOLUME   403474.901 3759503.241 68.75
   LOCATION L0000868     VOLUME   403479.169 3759495.786 68.72
   LOCATION L0000869     VOLUME   403483.437 3759488.330 68.63
   LOCATION L0000870     VOLUME   403487.705 3759480.874 68.52
   LOCATION L0000871     VOLUME   403491.972 3759473.418 68.41
   LOCATION L0000872     VOLUME   403496.240 3759465.962 68.30
   LOCATION L0000873     VOLUME   403500.508 3759458.507 68.20
   LOCATION L0000874     VOLUME   403504.775 3759451.051 68.09
   LOCATION L0000875     VOLUME   403510.793 3759446.613 68.07
   LOCATION L0000876     VOLUME   403518.524 3759450.254 68.28
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC South on Whittier Blvd to Washington Blvd
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.27E-07
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
```

```
** Nodes = 14
** 403526.824, 3759455.741, 68.65, 3.50, 4.00
** 403561.451, 3759395.666, 67.72, 3.50, 4.00
** 403590.654, 3759346.021, 66.66, 3.50, 4.00
** 403619.440, 3759297.627, 66.39, 3.50, 4.00
** 403665.747, 3759216.276, 64.97, 3.50, 4.00
** 403687.024, 3759180.815, 65.01, 3.50, 4.00
** 403697.453, 3759163.710, 64.84, 3.50, 4.00
** 403700.374, 3759155.367, 64.87, 3.50, 4.00
** 403700.791, 3759147.023, 64.93, 3.50, 4.00
** 403696.619, 3759138.679, 64.56, 3.50, 4.00
** 403687.441, 3759131.587, 64.03, 3.50, 4.00
** 403661.575, 3759130.753, 63.12, 3.50, 4.00
** 403635.293, 3759128.250, 62.14, 3.50, 4.00
** 403132.336, 3759031.102, 52.34, 3.50, 4.00
** ---------------------------------------------------------------------
   LOCATION L0000877     VOLUME   403528.969 3759452.019 68.52
   LOCATION L0000878     VOLUME   403533.259 3759444.576 68.43
   LOCATION L0000879     VOLUME   403537.549 3759437.134 68.33
   LOCATION L0000880     VOLUME   403541.839 3759429.691 68.23
   LOCATION L0000881     VOLUME   403546.129 3759422.248 68.12
   LOCATION L0000882     VOLUME   403550.419 3759414.805 68.02
   LOCATION L0000883     VOLUME   403554.709 3759407.362 67.93
   LOCATION L0000884     VOLUME   403558.999 3759399.919 67.88
   LOCATION L0000885     VOLUME   403563.318 3759392.492 67.86
   LOCATION L0000886     VOLUME   403567.673 3759385.088 67.79
   LOCATION L0000887     VOLUME   403572.029 3759377.683 67.69
   LOCATION L0000888     VOLUME   403576.385 3759370.278 67.54
   LOCATION L0000889     VOLUME   403580.740 3759362.873 67.43
   LOCATION L0000890     VOLUME   403585.096 3759355.469 67.29
   LOCATION L0000891     VOLUME   403589.452 3759348.064 67.11
   LOCATION L0000892     VOLUME   403593.834 3759340.675 66.91
   LOCATION L0000893     VOLUME   403598.226 3759333.291 66.71
   LOCATION L0000894     VOLUME   403602.617 3759325.908 66.55
   LOCATION L0000895     VOLUME   403607.009 3759318.525 66.41
   LOCATION L0000896     VOLUME   403611.401 3759311.141 66.32
   LOCATION L0000897     VOLUME   403615.793 3759303.758 66.26
   LOCATION L0000898     VOLUME   403620.161 3759296.361 66.20
   LOCATION L0000899     VOLUME   403624.410 3759288.895 66.08
   LOCATION L0000900     VOLUME   403628.660 3759281.429 65.92
   LOCATION L0000901     VOLUME   403632.910 3759273.963 65.87
   LOCATION L0000902     VOLUME   403637.160 3759266.497 65.80
   LOCATION L0000903     VOLUME   403641.410 3759259.031 65.70
   LOCATION L0000904     VOLUME   403645.660 3759251.565 65.55
   LOCATION L0000905     VOLUME   403649.909 3759244.099 65.38
   LOCATION L0000906     VOLUME   403654.159 3759236.633 65.20
   LOCATION L0000907     VOLUME   403658.409 3759229.167 65.08
   LOCATION L0000908     VOLUME   403662.659 3759221.701 65.03
   LOCATION L0000909     VOLUME   403666.955 3759214.262 65.06
   LOCATION L0000910     VOLUME   403671.375 3759206.896 65.18
   LOCATION L0000911     VOLUME   403675.795 3759199.529 65.30
```

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LOCATION L0000912     VOLUME   403680.215 3759192.163 65.28
LOCATION L0000913     VOLUME   403684.635 3759184.796 65.20
LOCATION L0000914     VOLUME   403689.079 3759177.444 65.11
LOCATION L0000915     VOLUME   403693.552 3759170.109 65.01
LOCATION L0000916     VOLUME   403697.816 3759162.676 64.98
LOCATION L0000917     VOLUME   403700.416 3759154.521 64.94
LOCATION L0000918     VOLUME   403700.306 3759146.054 64.83
LOCATION L0000919     VOLUME   403696.345 3759138.468 64.60
LOCATION L0000920     VOLUME   403689.548 3759133.215 64.32
LOCATION L0000921     VOLUME   403681.516 3759131.396 64.05
LOCATION L0000922     VOLUME   403672.929 3759131.119 63.79
LOCATION L0000923     VOLUME   403664.343 3759130.842 63.54
LOCATION L0000924     VOLUME   403655.780 3759130.201 63.27
LOCATION L0000925     VOLUME   403647.228 3759129.386 62.98
LOCATION L0000926     VOLUME   403638.676 3759128.572 62.66
LOCATION L0000927     VOLUME   403630.194 3759127.265 62.32
LOCATION L0000928     VOLUME   403621.759 3759125.636 61.99
LOCATION L0000929     VOLUME   403613.325 3759124.006 61.67
LOCATION L0000930     VOLUME   403604.890 3759122.377 61.37
LOCATION L0000931     VOLUME   403596.455 3759120.748 61.06
LOCATION L0000932     VOLUME   403588.020 3759119.119 60.80
LOCATION L0000933     VOLUME   403579.585 3759117.489 60.59
LOCATION L0000934     VOLUME   403571.150 3759115.860 60.42
LOCATION L0000935     VOLUME   403562.715 3759114.231 60.30
LOCATION L0000936     VOLUME   403554.280 3759112.602 60.14
LOCATION L0000937     VOLUME   403545.845 3759110.973 59.97
LOCATION L0000938     VOLUME   403537.411 3759109.343 59.86
LOCATION L0000939     VOLUME   403528.976 3759107.714 59.74
LOCATION L0000940     VOLUME   403520.541 3759106.085 59.62
LOCATION L0000941     VOLUME   403512.106 3759104.456 59.52
LOCATION L0000942     VOLUME   403503.671 3759102.826 59.41
LOCATION L0000943     VOLUME   403495.236 3759101.197 59.29
LOCATION L0000944     VOLUME   403486.801 3759099.568 59.11
LOCATION L0000945     VOLUME   403478.366 3759097.939 58.94
LOCATION L0000946     VOLUME   403469.931 3759096.310 58.75
LOCATION L0000947     VOLUME   403461.496 3759094.680 58.50
LOCATION L0000948     VOLUME   403453.062 3759093.051 58.26
LOCATION L0000949     VOLUME   403444.627 3759091.422 58.02
LOCATION L0000950     VOLUME   403436.192 3759089.793 57.76
LOCATION L0000951     VOLUME   403427.757 3759088.163 57.55
LOCATION L0000952     VOLUME   403419.322 3759086.534 57.37
LOCATION L0000953     VOLUME   403410.887 3759084.905 57.32
LOCATION L0000954     VOLUME   403402.452 3759083.276 57.24
LOCATION L0000955     VOLUME   403394.017 3759081.647 57.13
LOCATION L0000956     VOLUME   403385.582 3759080.017 57.09
LOCATION L0000957     VOLUME   403377.147 3759078.388 57.03
LOCATION L0000958     VOLUME   403368.713 3759076.759 56.95
LOCATION L0000959     VOLUME   403360.278 3759075.130 56.89
LOCATION L0000960     VOLUME   403351.843 3759073.500 56.84
LOCATION L0000961     VOLUME   403343.408 3759071.871 56.78
LOCATION L0000962     VOLUME   403334.973 3759070.242 56.72
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   LOCATION L0000963     VOLUME   403326.538 3759068.613 56.65
   LOCATION L0000964     VOLUME   403318.103 3759066.984 56.57
   LOCATION L0000965     VOLUME   403309.668 3759065.354 56.37
   LOCATION L0000966     VOLUME   403301.233 3759063.725 56.17
   LOCATION L0000967     VOLUME   403292.799 3759062.096 55.97
   LOCATION L0000968     VOLUME   403284.364 3759060.467 55.70
   LOCATION L0000969     VOLUME   403275.929 3759058.837 55.41
   LOCATION L0000970     VOLUME   403267.494 3759057.208 55.13
   LOCATION L0000971     VOLUME   403259.059 3759055.579 54.93
   LOCATION L0000972     VOLUME   403250.624 3759053.950 54.75
   LOCATION L0000973     VOLUME   403242.189 3759052.321 54.55
   LOCATION L0000974     VOLUME   403233.754 3759050.691 54.50
   LOCATION L0000975     VOLUME   403225.319 3759049.062 54.47
   LOCATION L0000976     VOLUME   403216.884 3759047.433 54.40
   LOCATION L0000977     VOLUME   403208.450 3759045.804 54.23
   LOCATION L0000978     VOLUME   403200.015 3759044.174 54.01
   LOCATION L0000979     VOLUME   403191.580 3759042.545 53.80
   LOCATION L0000980     VOLUME   403183.145 3759040.916 53.54
   LOCATION L0000981     VOLUME   403174.710 3759039.287 53.26
   LOCATION L0000982     VOLUME   403166.275 3759037.658 53.01
   LOCATION L0000983     VOLUME   403157.840 3759036.028 52.81
   LOCATION L0000984     VOLUME   403149.405 3759034.399 52.62
   LOCATION L0000985     VOLUME   403140.970 3759032.770 52.43
   LOCATION L0000986     VOLUME   403132.535 3759031.141 52.25
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Northbound along Whitter Blvd
** PREFIX
** Length of Side = 10.11
** Configuration = Adjacent
** Emission Rate = 3.62E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 7
** 403541.907, 3759460.234, 69.09, 3.50, 4.70
** 403548.291, 3759465.199, 69.37, 3.50, 4.70
** 403540.134, 3759487.187, 69.75, 3.50, 4.70
** 403492.611, 3759570.175, 70.72, 3.50, 4.70
** 403452.890, 3759640.041, 71.88, 3.50, 4.70
** 403398.984, 3759724.801, 72.44, 3.50, 4.70
** 403007.874, 3760386.371, 71.03, 3.50, 4.70
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   LOCATION L0000988     VOLUME   403545.826 3759471.842 69.48
   LOCATION L0000989     VOLUME   403542.308 3759481.325 69.66
   LOCATION L0000990     VOLUME   403538.215 3759490.539 69.93
   LOCATION L0000991     VOLUME   403533.188 3759499.317 70.12
   LOCATION L0000992     VOLUME   403528.162 3759508.094 70.18
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LOCATION L0000993     VOLUME   403523.135 3759516.871 70.13
LOCATION L0000994     VOLUME   403518.109 3759525.649 70.26
LOCATION L0000995     VOLUME   403513.082 3759534.426 70.53
LOCATION L0000996     VOLUME   403508.056 3759543.204 70.83
LOCATION L0000997     VOLUME   403503.030 3759551.981 71.13
LOCATION L0000998     VOLUME   403498.003 3759560.759 71.07
LOCATION L0000999     VOLUME   403492.977 3759569.536 71.01
LOCATION L0001000     VOLUME   403487.976 3759578.328 70.99
LOCATION L0001001     VOLUME   403482.977 3759587.121 71.05
LOCATION L0001002     VOLUME   403477.977 3759595.914 71.14
LOCATION L0001003     VOLUME   403472.978 3759604.708 71.24
LOCATION L0001004     VOLUME   403467.979 3759613.501 71.43
LOCATION L0001005     VOLUME   403462.980 3759622.294 71.63
LOCATION L0001006     VOLUME   403457.981 3759631.087 71.77
LOCATION L0001007     VOLUME   403452.982 3759639.880 71.85
LOCATION L0001008     VOLUME   403447.562 3759648.419 71.87
LOCATION L0001009     VOLUME   403442.134 3759656.954 71.94
LOCATION L0001010     VOLUME   403436.705 3759665.489 72.05
LOCATION L0001011     VOLUME   403431.277 3759674.024 72.20
LOCATION L0001012     VOLUME   403425.849 3759682.559 72.31
LOCATION L0001013     VOLUME   403420.421 3759691.094 72.30
LOCATION L0001014     VOLUME   403414.993 3759699.629 72.34
LOCATION L0001015     VOLUME   403409.565 3759708.164 72.42
LOCATION L0001016     VOLUME   403404.137 3759716.699 72.47
LOCATION L0001017     VOLUME   403398.723 3759725.243 72.48
LOCATION L0001018     VOLUME   403393.576 3759733.950 72.47
LOCATION L0001019     VOLUME   403388.428 3759742.657 72.44
LOCATION L0001020     VOLUME   403383.281 3759751.364 72.37
LOCATION L0001021     VOLUME   403378.133 3759760.071 72.29
LOCATION L0001022     VOLUME   403372.986 3759768.778 72.20
LOCATION L0001023     VOLUME   403367.838 3759777.485 72.12
LOCATION L0001024     VOLUME   403362.691 3759786.192 72.06
LOCATION L0001025     VOLUME   403357.543 3759794.899 72.03
LOCATION L0001026     VOLUME   403352.396 3759803.606 72.02
LOCATION L0001027     VOLUME   403347.248 3759812.313 71.99
LOCATION L0001028     VOLUME   403342.101 3759821.020 71.94
LOCATION L0001029     VOLUME   403336.953 3759829.727 71.89
LOCATION L0001030     VOLUME   403331.806 3759838.434 71.81
LOCATION L0001031     VOLUME   403326.658 3759847.141 71.78
LOCATION L0001032     VOLUME   403321.511 3759855.848 71.74
LOCATION L0001033     VOLUME   403316.364 3759864.555 71.66
LOCATION L0001034     VOLUME   403311.216 3759873.262 71.53
LOCATION L0001035     VOLUME   403306.069 3759881.969 71.43
LOCATION L0001036     VOLUME   403300.921 3759890.677 71.36
LOCATION L0001037     VOLUME   403295.774 3759899.384 71.35
LOCATION L0001038     VOLUME   403290.626 3759908.091 71.32
LOCATION L0001039     VOLUME   403285.479 3759916.798 71.27
LOCATION L0001040     VOLUME   403280.331 3759925.505 71.20
LOCATION L0001041     VOLUME   403275.184 3759934.212 71.19
LOCATION L0001042     VOLUME   403270.036 3759942.919 71.22
LOCATION L0001043     VOLUME   403264.889 3759951.626 71.20
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   LOCATION L0001044     VOLUME   403259.741 3759960.333 71.10
   LOCATION L0001045     VOLUME   403254.594 3759969.040 71.01
   LOCATION L0001046     VOLUME   403249.446 3759977.747 70.98
   LOCATION L0001047     VOLUME   403244.299 3759986.454 70.96
   LOCATION L0001048     VOLUME   403239.151 3759995.161 70.92
   LOCATION L0001049     VOLUME   403234.004 3760003.868 70.88
   LOCATION L0001050     VOLUME   403228.856 3760012.575 70.84
   LOCATION L0001051     VOLUME   403223.709 3760021.282 70.80
   LOCATION L0001052     VOLUME   403218.561 3760029.989 70.75
   LOCATION L0001053     VOLUME   403213.414 3760038.696 70.67
   LOCATION L0001054     VOLUME   403208.267 3760047.403 70.56
   LOCATION L0001055     VOLUME   403203.119 3760056.110 70.47
   LOCATION L0001056     VOLUME   403197.972 3760064.817 70.46
   LOCATION L0001057     VOLUME   403192.824 3760073.525 70.49
   LOCATION L0001058     VOLUME   403187.677 3760082.232 70.47
   LOCATION L0001059     VOLUME   403182.529 3760090.939 70.45
   LOCATION L0001060     VOLUME   403177.382 3760099.646 70.42
   LOCATION L0001061     VOLUME   403172.234 3760108.353 70.40
   LOCATION L0001062     VOLUME   403167.087 3760117.060 70.47
   LOCATION L0001063     VOLUME   403161.939 3760125.767 70.47
   LOCATION L0001064     VOLUME   403156.792 3760134.474 70.40
   LOCATION L0001065     VOLUME   403151.644 3760143.181 70.29
   LOCATION L0001066     VOLUME   403146.497 3760151.888 70.32
   LOCATION L0001067     VOLUME   403141.349 3760160.595 70.34
   LOCATION L0001068     VOLUME   403136.202 3760169.302 70.30
   LOCATION L0001069     VOLUME   403131.054 3760178.009 70.19
   LOCATION L0001070     VOLUME   403125.907 3760186.716 70.07
   LOCATION L0001071     VOLUME   403120.759 3760195.423 69.98
   LOCATION L0001072     VOLUME   403115.612 3760204.130 69.95
   LOCATION L0001073     VOLUME   403110.464 3760212.837 70.08
   LOCATION L0001074     VOLUME   403105.317 3760221.544 70.15
   LOCATION L0001075     VOLUME   403100.170 3760230.251 70.18
   LOCATION L0001076     VOLUME   403095.022 3760238.958 70.24
   LOCATION L0001077     VOLUME   403089.875 3760247.665 70.34
   LOCATION L0001078     VOLUME   403084.727 3760256.373 70.40
   LOCATION L0001079     VOLUME   403079.580 3760265.080 70.43
   LOCATION L0001080     VOLUME   403074.432 3760273.787 70.55
   LOCATION L0001081     VOLUME   403069.285 3760282.494 70.74
   LOCATION L0001082     VOLUME   403064.137 3760291.201 70.91
   LOCATION L0001083     VOLUME   403058.990 3760299.908 71.04
   LOCATION L0001084     VOLUME   403053.842 3760308.615 71.16
   LOCATION L0001085     VOLUME   403048.695 3760317.322 71.30
   LOCATION L0001086     VOLUME   403043.547 3760326.029 71.36
   LOCATION L0001087     VOLUME   403038.400 3760334.736 71.25
   LOCATION L0001088     VOLUME   403033.252 3760343.443 71.12
   LOCATION L0001089     VOLUME   403028.105 3760352.150 70.98
   LOCATION L0001090     VOLUME   403022.957 3760360.857 70.90
   LOCATION L0001091     VOLUME   403017.810 3760369.564 71.03
   LOCATION L0001092     VOLUME   403012.662 3760378.271 71.07
** End of LINE VOLUME Source ID = SLINE4
** Source Parameters **
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   SRCPARAM STCK1         6.05E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK2         6.05E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK3         6.05E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK4         6.05E-06     3.500   366.000  51.90000     0.100
   SRCPARAM STCK5         6.05E-06     3.500   366.000  51.90000     0.100
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000820     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000821     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000822     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000823     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000824     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000825     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000826     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000827     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000828     0.00000009192      3.50      4.00      4.96
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   SRCPARAM L0000831     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000832     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000833     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000834     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000835     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000836     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000837     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000838     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000839     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000840     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000841     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000842     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000843     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000844     0.00000009192      3.50      4.00      4.96
   SRCPARAM L0000845     0.00000009192      3.50      4.00      4.96
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   SRCPARAM L0000846     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000847     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000848     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000849     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000850     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000851     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000852     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000853     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000854     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000855     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000856     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000857     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000858     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000859     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000860     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000861     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000862     0.0000000571      3.50      4.00      1.63
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   SRCPARAM L0000863     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000864     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000865     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000866     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000867     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000868     0.0000000571      3.50      4.00      1.63
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   SRCPARAM L0000870     0.0000000571      3.50      4.00      1.63
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   SRCPARAM L0000873     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000874     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000875     0.0000000571      3.50      4.00      1.63
   SRCPARAM L0000876     0.0000000571      3.50      4.00      1.63
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** LINE VOLUME Source ID = SLINE3
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   SRCPARAM L0000878     0.000000001155      3.50      4.00      1.63
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   SRCPARAM L0000885     0.000000001155      3.50      4.00      1.63
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   SRCPARAM L0000891     0.000000001155      3.50      4.00      1.63
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   SRCPARAM L0000911     0.000000001155      3.50      4.00      1.63
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SRCPARAM L0000958     0.000000001155      3.50      4.00      1.63
SRCPARAM L0000959     0.000000001155      3.50      4.00      1.63
SRCPARAM L0000960     0.000000001155      3.50      4.00      1.63
SRCPARAM L0000961     0.000000001155      3.50      4.00      1.63
SRCPARAM L0000962     0.000000001155      3.50      4.00      1.63
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   SRCPARAM L0000963     0.000000001155      3.50      4.00      1.63
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   SRCPARAM L0000979     0.000000001155      3.50      4.00      1.63
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   SRCPARAM L0000984     0.000000001155      3.50      4.00      1.63
   SRCPARAM L0000985     0.000000001155      3.50      4.00      1.63
   SRCPARAM L0000986     0.000000001155      3.50      4.00      1.63
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0000987     0.00000003415      3.50      4.70      1.63
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   SRCPARAM L0001009     0.00000003415      3.50      4.70      1.63
   SRCPARAM L0001010     0.00000003415      3.50      4.70      1.63
   SRCPARAM L0001011     0.00000003415      3.50      4.70      1.63
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SRCPARAM L0001062     0.00000003415      3.50      4.70      1.63
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   SRCPARAM L0001091     0.00000003415      3.50      4.70      1.63
   SRCPARAM L0001092     0.00000003415      3.50      4.70      1.63
** ------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK1          10.67    10.67    10.67    10.67    10.67    10.67

   BUILDHGT STCK2          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK2          10.67    10.67    10.67    10.67    10.67    10.67

   BUILDHGT STCK3          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3          10.67    10.67    10.67    10.67    10.67    10.67
   BUILDHGT STCK3          10.67    10.67    10.67    10.67    10.67    10.67
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BUILDHGT STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK3	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK4	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	0.00	0.00
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDHGT STCK5	10.67	10.67	10.67	10.67	10.67	10.67
BUILDWID STCK1	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK1	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK1	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK1	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK1	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK1	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK2	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK2	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK2	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK2	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK2	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK2	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK3	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK3	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK3	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK3	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK3	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK3	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK4	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK4	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK4	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK4	225.22	215.35	200.78	181.96	157.62	128.68
BUILDWID STCK4	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK4	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK5	225.22	215.35	200.78	181.96	0.00	0.00
BUILDWID STCK5	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK5	258.53	250.32	238.49	242.14	238.43	228.24
BUILDWID STCK5	225.22	215.35	200.78	181.96	0.00	0.00
BUILDWID STCK5	150.61	185.06	213.89	236.22	251.37	258.88
BUILDWID STCK5	258.53	250.32	238.49	242.14	238.43	228.24

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BUILDLEN STCK1          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK1          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK1          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK1          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK1          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK1          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK2          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK2          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK2          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK2          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK2          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK2          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK3          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK3          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK3          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK3          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK3          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK3          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK4          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK4          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK4          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK4          236.22   251.37   258.88   258.53   250.32   238.49
BUILDLEN STCK4          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK4          181.96   157.62   128.68   150.61   185.06   213.89

BUILDLEN STCK5          236.22   251.37   258.88   258.53     0.00     0.00
BUILDLEN STCK5          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK5          181.96   157.62   128.68   150.61   185.06   213.89
BUILDLEN STCK5          236.22   251.37   258.88   258.53     0.00     0.00
BUILDLEN STCK5          242.14   238.43   228.24   225.22   215.35   200.78
BUILDLEN STCK5          181.96   157.62   128.68   150.61   185.06   213.89

XBADJ    STCK1          -17.27   -23.31   -28.65   -33.12   -36.58   -39.74
XBADJ    STCK1          -47.85   -54.51   -60.29   -78.33   -94.00  -106.80
XBADJ    STCK1         -116.36  -122.39  -124.70  -153.82  -181.26  -203.19
XBADJ    STCK1         -218.95  -228.05  -230.23  -225.41  -213.74  -198.76
XBADJ    STCK1         -194.29  -183.91  -167.95  -146.88  -121.36   -93.98
XBADJ    STCK1          -65.60   -35.23    -3.98     3.21    -3.81   -10.70

XBADJ    STCK2          -60.58   -75.64   -88.41   -98.49  -105.58  -110.27
XBADJ    STCK2         -117.77  -121.70  -122.70  -134.07  -141.37  -144.37
XBADJ    STCK2         -142.98  -137.25  -127.35  -144.18  -159.63  -170.22
XBADJ    STCK2         -175.64  -175.73  -170.47  -160.03  -144.74  -128.23
XBADJ    STCK2         -124.36  -116.73  -105.54   -91.15   -73.99   -56.41
XBADJ    STCK2          -38.98   -20.37    -1.33    -6.43   -25.44   -43.67

XBADJ    STCK3          -30.33   -39.46   -47.40   -53.90   -58.75   -62.64
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XBADJ	STCK3	-70.78	-76.78	-81.21	-97.27	-110.38	-120.13
XBADJ	STCK3	-126.24	-128.51	-126.87	-151.98	-175.47	-193.62
XBADJ	STCK3	-205.89	-211.90	-211.48	-204.63	-191.56	-175.86
XBADJ	STCK3	-171.36	-161.65	-147.03	-127.94	-104.97	-80.64
XBADJ	STCK3	-55.73	-29.11	-1.81	1.37	-9.60	-20.27
XBADJ	STCK4	-83.50	-102.70	-118.79	-131.26	-139.74	-144.79
XBADJ	STCK4	-151.61	-153.82	-152.12	-159.90	-162.82	-160.80
XBADJ	STCK4	-153.89	-142.30	-126.39	-137.25	-146.92	-152.13
XBADJ	STCK4	-152.72	-148.66	-140.09	-127.27	-110.57	-93.70
XBADJ	STCK4	-90.53	-84.61	-76.12	-65.32	-52.53	-39.98
XBADJ	STCK4	-28.07	-15.32	-2.29	-13.37	-38.14	-61.76
XBADJ	STCK5	-95.76	-121.53	-143.60	-161.32	0.00	0.00
XBADJ	STCK5	-191.41	-194.55	-192.54	-198.78	-198.99	-193.14
XBADJ	STCK5	-181.43	-164.21	-142.00	-146.07	-148.70	-146.81
XBADJ	STCK5	-140.46	-129.84	-115.28	-97.21	0.00	0.00
XBADJ	STCK5	-50.73	-43.88	-35.70	-26.43	-16.36	-7.63
XBADJ	STCK5	-0.53	6.59	13.32	-4.54	-36.36	-67.08
YBADJ	STCK1	-34.28	-13.68	6.41	25.38	43.58	60.36
YBADJ	STCK1	78.51	88.73	96.25	100.84	102.37	100.79
YBADJ	STCK1	96.15	88.58	79.51	73.22	64.70	53.83
YBADJ	STCK1	34.28	13.68	-6.41	-25.38	-43.58	-60.36
YBADJ	STCK1	-78.51	-88.73	-96.25	-100.84	-102.37	-100.79
YBADJ	STCK1	-96.15	-88.58	-79.51	-73.22	-64.70	-53.83
YBADJ	STCK2	21.46	33.69	43.98	52.00	58.44	63.01
YBADJ	STCK2	68.88	67.10	63.27	57.53	50.04	41.03
YBADJ	STCK2	30.77	19.58	8.98	3.30	-2.49	-8.58
YBADJ	STCK2	-21.46	-33.69	-43.98	-52.00	-58.44	-63.01
YBADJ	STCK2	-68.88	-67.10	-63.27	-57.53	-50.04	-41.03
YBADJ	STCK2	-30.77	-19.58	-8.98	-3.30	2.49	8.58
YBADJ	STCK3	-15.34	2.71	19.75	35.26	49.70	62.53
YBADJ	STCK3	76.67	82.93	86.68	87.78	86.22	82.04
YBADJ	STCK3	75.37	66.40	56.61	50.29	42.44	32.91
YBADJ	STCK3	15.34	-2.71	-19.75	-35.26	-49.70	-62.53
YBADJ	STCK3	-76.67	-82.93	-86.68	-87.78	-86.22	-82.04
YBADJ	STCK3	-75.37	-66.40	-56.61	-50.29	-42.44	-32.91
YBADJ	STCK4	47.29	55.15	60.41	62.91	63.49	62.05
YBADJ	STCK4	61.94	54.39	45.18	34.61	22.98	10.65
YBADJ	STCK4	-2.00	-14.59	-25.55	-30.54	-34.60	-38.00
YBADJ	STCK4	-47.29	-55.15	-60.41	-62.91	-63.49	-62.05
YBADJ	STCK4	-61.94	-54.39	-45.18	-34.61	-22.98	-10.65
YBADJ	STCK4	2.00	14.59	25.55	30.54	34.60	38.00
YBADJ	STCK5	86.17	91.31	92.76	90.45	0.00	0.00
YBADJ	STCK5	70.77	56.17	39.86	22.35	4.16	-14.16
YBADJ	STCK5	-32.05	-48.97	-63.21	-70.34	-75.33	-78.42

```
   YBADJ    STCK5          -86.17   -91.31   -92.76   -90.45     0.00     0.00
   YBADJ    STCK5          -70.77   -56.17   -39.86   -22.35    -4.16    14.16
   YBADJ    STCK5           32.05    48.97    63.21    70.34    75.33    78.42

   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "19391 Whittier Blvd BP 2nd 14YR.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.SFC"
   PROFFILE "E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL"
   SURFDATA 3166 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 58.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "19391 WHITTIER BLVD BP 2ND 14YR.AD\PE00GALL.PLT" 31
   SUMMFILE "19391 Whittier Blvd BP 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            7 Warning Message(s)
 A Total of            0 Informational Message(s)
```

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


   ********   WARNING MESSAGES   ********
SO W320     408        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     409        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     410        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     411        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
SO W320     412        PPARM: Input Parameter May Be Out-of-Range for Parameter           VS
ME W186     896       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
ME W187     896       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                  ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2040 to 2053                   ***        18:19:34
                                                                                                        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   278 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
       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:    278 Source(s);       1 Source Group(s); and     450 Receptor(s)

               with:      5 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    273 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) =    58.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                              ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.0 MB of RAM.

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

**Detailed Error/Message File:   19391 Whittier Blvd BP 2nd 14YR.err
**File for Summary of Results:   19391 Whittier Blvd BP 2nd 14YR.sum

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2040 to 2053                           ***        18:19:34
                                                                                                               PAGE   2
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** POINT SOURCE DATA ***
```

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.60500E-05	403193.6	3759565.7	66.8	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK2	0	0.60500E-05	403256.0	3759598.7	67.4	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK3	0	0.60500E-05	403214.6	3759575.3	66.9	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.60500E-05	403285.5	3759616.8	67.6	3.50	366.00	51.90	0.10	YES	YES	NO	
STCK5	0	0.60500E-05	403325.9	3759622.1	67.8	3.50	366.00	51.90	0.10	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000820	0	0.91920E-07	403372.2	3759656.1	68.9	3.50	4.00	4.96	YES	
L0000821	0	0.91920E-07	403365.9	3759650.2	68.3	3.50	4.00	4.96	YES	
L0000822	0	0.91920E-07	403360.2	3759643.8	68.1	3.50	4.00	4.96	YES	
L0000823	0	0.91920E-07	403354.0	3759637.9	68.2	3.50	4.00	4.96	YES	
L0000824	0	0.91920E-07	403346.9	3759633.2	68.1	3.50	4.00	4.96	YES	
L0000825	0	0.91920E-07	403339.3	3759629.0	68.0	3.50	4.00	4.96	YES	
L0000826	0	0.91920E-07	403331.8	3759624.9	67.9	3.50	4.00	4.96	YES	
L0000827	0	0.91920E-07	403324.3	3759620.8	67.8	3.50	4.00	4.96	YES	
L0000828	0	0.91920E-07	403316.8	3759616.6	67.7	3.50	4.00	4.96	YES	
L0000829	0	0.91920E-07	403309.3	3759612.4	67.7	3.50	4.00	4.96	YES	
L0000830	0	0.91920E-07	403301.8	3759608.1	67.6	3.50	4.00	4.96	YES	
L0000831	0	0.91920E-07	403294.3	3759603.9	67.6	3.50	4.00	4.96	YES	
L0000832	0	0.91920E-07	403286.9	3759599.7	67.5	3.50	4.00	4.96	YES	
L0000833	0	0.91920E-07	403279.4	3759595.5	67.5	3.50	4.00	4.96	YES	
L0000834	0	0.91920E-07	403271.9	3759591.2	67.4	3.50	4.00	4.96	YES	
L0000835	0	0.91920E-07	403264.4	3759587.0	67.4	3.50	4.00	4.96	YES	
L0000836	0	0.91920E-07	403257.0	3759582.8	67.3	3.50	4.00	4.96	YES	
L0000837	0	0.91920E-07	403249.5	3759578.5	67.2	3.50	4.00	4.96	YES	
L0000838	0	0.91920E-07	403242.0	3759574.3	67.1	3.50	4.00	4.96	YES	
L0000839	0	0.91920E-07	403234.5	3759570.1	66.9	3.50	4.00	4.96	YES	
L0000840	0	0.91920E-07	403227.1	3759565.8	66.8	3.50	4.00	4.96	YES	
L0000841	0	0.91920E-07	403219.6	3759561.6	66.8	3.50	4.00	4.96	YES	
L0000842	0	0.91920E-07	403212.1	3759557.4	66.8	3.50	4.00	4.96	YES	
L0000843	0	0.91920E-07	403204.6	3759553.2	66.6	3.50	4.00	4.96	YES	
L0000844	0	0.91920E-07	403197.1	3759548.9	66.3	3.50	4.00	4.96	YES	
L0000845	0	0.91920E-07	403189.7	3759544.7	66.0	3.50	4.00	4.96	YES	
L0000846	0	0.57100E-07	403385.3	3759659.8	70.0	3.50	4.00	1.63	YES	

L0000847	0	0.57100E-07	403389.5	3759652.4	70.0	3.50	4.00	1.63	YES
L0000848	0	0.57100E-07	403393.8	3759644.9	70.1	3.50	4.00	1.63	YES
L0000849	0	0.57100E-07	403398.1	3759637.4	70.4	3.50	4.00	1.63	YES
L0000850	0	0.57100E-07	403402.4	3759630.0	70.4	3.50	4.00	1.63	YES
L0000851	0	0.57100E-07	403406.6	3759622.5	70.3	3.50	4.00	1.63	YES
L0000852	0	0.57100E-07	403410.9	3759615.1	70.2	3.50	4.00	1.63	YES
L0000853	0	0.57100E-07	403415.2	3759607.6	70.1	3.50	4.00	1.63	YES
L0000854	0	0.57100E-07	403419.4	3759600.2	69.9	3.50	4.00	1.63	YES
L0000855	0	0.57100E-07	403423.7	3759592.7	69.8	3.50	4.00	1.63	YES
L0000856	0	0.57100E-07	403428.0	3759585.3	69.8	3.50	4.00	1.63	YES
L0000857	0	0.57100E-07	403432.2	3759577.8	69.7	3.50	4.00	1.63	YES
L0000858	0	0.57100E-07	403436.5	3759570.3	69.6	3.50	4.00	1.63	YES
L0000859	0	0.57100E-07	403440.8	3759562.9	69.5	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
L0000860	0	0.57100E-07	403445.0	3759555.4	69.4	3.50	4.00	1.63	YES	
L0000861	0	0.57100E-07	403449.3	3759548.0	69.3	3.50	4.00	1.63	YES	
L0000862	0	0.57100E-07	403453.6	3759540.5	69.2	3.50	4.00	1.63	YES	
L0000863	0	0.57100E-07	403457.8	3759533.1	69.0	3.50	4.00	1.63	YES	
L0000864	0	0.57100E-07	403462.1	3759525.6	68.9	3.50	4.00	1.63	YES	
L0000865	0	0.57100E-07	403466.4	3759518.2	68.8	3.50	4.00	1.63	YES	
L0000866	0	0.57100E-07	403470.6	3759510.7	68.8	3.50	4.00	1.63	YES	
L0000867	0	0.57100E-07	403474.9	3759503.2	68.8	3.50	4.00	1.63	YES	
L0000868	0	0.57100E-07	403479.2	3759495.8	68.7	3.50	4.00	1.63	YES	
L0000869	0	0.57100E-07	403483.4	3759488.3	68.6	3.50	4.00	1.63	YES	
L0000870	0	0.57100E-07	403487.7	3759480.9	68.5	3.50	4.00	1.63	YES	
L0000871	0	0.57100E-07	403492.0	3759473.4	68.4	3.50	4.00	1.63	YES	
L0000872	0	0.57100E-07	403496.2	3759466.0	68.3	3.50	4.00	1.63	YES	
L0000873	0	0.57100E-07	403500.5	3759458.5	68.2	3.50	4.00	1.63	YES	
L0000874	0	0.57100E-07	403504.8	3759451.1	68.1	3.50	4.00	1.63	YES	
L0000875	0	0.57100E-07	403510.8	3759446.6	68.1	3.50	4.00	1.63	YES	
L0000876	0	0.57100E-07	403518.5	3759450.3	68.3	3.50	4.00	1.63	YES	
L0000877	0	0.11550E-08	403529.0	3759452.0	68.5	3.50	4.00	1.63	YES	
L0000878	0	0.11550E-08	403533.3	3759444.6	68.4	3.50	4.00	1.63	YES	
L0000879	0	0.11550E-08	403537.5	3759437.1	68.3	3.50	4.00	1.63	YES	
L0000880	0	0.11550E-08	403541.8	3759429.7	68.2	3.50	4.00	1.63	YES	
L0000881	0	0.11550E-08	403546.1	3759422.2	68.1	3.50	4.00	1.63	YES	
L0000882	0	0.11550E-08	403550.4	3759414.8	68.0	3.50	4.00	1.63	YES	
L0000883	0	0.11550E-08	403554.7	3759407.4	67.9	3.50	4.00	1.63	YES	

L0000884	0	0.11550E-08	403559.0	3759399.9	67.9	3.50	4.00	1.63	YES
L0000885	0	0.11550E-08	403563.3	3759392.5	67.9	3.50	4.00	1.63	YES
L0000886	0	0.11550E-08	403567.7	3759385.1	67.8	3.50	4.00	1.63	YES
L0000887	0	0.11550E-08	403572.0	3759377.7	67.7	3.50	4.00	1.63	YES
L0000888	0	0.11550E-08	403576.4	3759370.3	67.5	3.50	4.00	1.63	YES
L0000889	0	0.11550E-08	403580.7	3759362.9	67.4	3.50	4.00	1.63	YES
L0000890	0	0.11550E-08	403585.1	3759355.5	67.3	3.50	4.00	1.63	YES
L0000891	0	0.11550E-08	403589.5	3759348.1	67.1	3.50	4.00	1.63	YES
L0000892	0	0.11550E-08	403593.8	3759340.7	66.9	3.50	4.00	1.63	YES
L0000893	0	0.11550E-08	403598.2	3759333.3	66.7	3.50	4.00	1.63	YES
L0000894	0	0.11550E-08	403602.6	3759325.9	66.5	3.50	4.00	1.63	YES
L0000895	0	0.11550E-08	403607.0	3759318.5	66.4	3.50	4.00	1.63	YES
L0000896	0	0.11550E-08	403611.4	3759311.1	66.3	3.50	4.00	1.63	YES
L0000897	0	0.11550E-08	403615.8	3759303.8	66.3	3.50	4.00	1.63	YES
L0000898	0	0.11550E-08	403620.2	3759296.4	66.2	3.50	4.00	1.63	YES
L0000899	0	0.11550E-08	403624.4	3759288.9	66.1	3.50	4.00	1.63	YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000900	0	0.11550E-08	403628.7	3759281.4	65.9	3.50	4.00	1.63	YES	
L0000901	0	0.11550E-08	403632.9	3759274.0	65.9	3.50	4.00	1.63	YES	
L0000902	0	0.11550E-08	403637.2	3759266.5	65.8	3.50	4.00	1.63	YES	
L0000903	0	0.11550E-08	403641.4	3759259.0	65.7	3.50	4.00	1.63	YES	
L0000904	0	0.11550E-08	403645.7	3759251.6	65.5	3.50	4.00	1.63	YES	
L0000905	0	0.11550E-08	403649.9	3759244.1	65.4	3.50	4.00	1.63	YES	
L0000906	0	0.11550E-08	403654.2	3759236.6	65.2	3.50	4.00	1.63	YES	
L0000907	0	0.11550E-08	403658.4	3759229.2	65.1	3.50	4.00	1.63	YES	
L0000908	0	0.11550E-08	403662.7	3759221.7	65.0	3.50	4.00	1.63	YES	
L0000909	0	0.11550E-08	403667.0	3759214.3	65.1	3.50	4.00	1.63	YES	
L0000910	0	0.11550E-08	403671.4	3759206.9	65.2	3.50	4.00	1.63	YES	
L0000911	0	0.11550E-08	403675.8	3759199.5	65.3	3.50	4.00	1.63	YES	
L0000912	0	0.11550E-08	403680.2	3759192.2	65.3	3.50	4.00	1.63	YES	
L0000913	0	0.11550E-08	403684.6	3759184.8	65.2	3.50	4.00	1.63	YES	
L0000914	0	0.11550E-08	403689.1	3759177.4	65.1	3.50	4.00	1.63	YES	
L0000915	0	0.11550E-08	403693.6	3759170.1	65.0	3.50	4.00	1.63	YES	
L0000916	0	0.11550E-08	403697.8	3759162.7	65.0	3.50	4.00	1.63	YES	
L0000917	0	0.11550E-08	403700.4	3759154.5	64.9	3.50	4.00	1.63	YES	
L0000918	0	0.11550E-08	403700.3	3759146.1	64.8	3.50	4.00	1.63	YES	
L0000919	0	0.11550E-08	403696.3	3759138.5	64.6	3.50	4.00	1.63	YES	
L0000920	0	0.11550E-08	403689.5	3759133.2	64.3	3.50	4.00	1.63	YES	

L0000921	0	0.11550E-08	403681.5	3759131.4	64.0	3.50	4.00	1.63	YES
L0000922	0	0.11550E-08	403672.9	3759131.1	63.8	3.50	4.00	1.63	YES
L0000923	0	0.11550E-08	403664.3	3759130.8	63.5	3.50	4.00	1.63	YES
L0000924	0	0.11550E-08	403655.8	3759130.2	63.3	3.50	4.00	1.63	YES
L0000925	0	0.11550E-08	403647.2	3759129.4	63.0	3.50	4.00	1.63	YES
L0000926	0	0.11550E-08	403638.7	3759128.6	62.7	3.50	4.00	1.63	YES
L0000927	0	0.11550E-08	403630.2	3759127.3	62.3	3.50	4.00	1.63	YES
L0000928	0	0.11550E-08	403621.8	3759125.6	62.0	3.50	4.00	1.63	YES
L0000929	0	0.11550E-08	403613.3	3759124.0	61.7	3.50	4.00	1.63	YES
L0000930	0	0.11550E-08	403604.9	3759122.4	61.4	3.50	4.00	1.63	YES
L0000931	0	0.11550E-08	403596.5	3759120.7	61.1	3.50	4.00	1.63	YES
L0000932	0	0.11550E-08	403588.0	3759119.1	60.8	3.50	4.00	1.63	YES
L0000933	0	0.11550E-08	403579.6	3759117.5	60.6	3.50	4.00	1.63	YES
L0000934	0	0.11550E-08	403571.1	3759115.9	60.4	3.50	4.00	1.63	YES
L0000935	0	0.11550E-08	403562.7	3759114.2	60.3	3.50	4.00	1.63	YES
L0000936	0	0.11550E-08	403554.3	3759112.6	60.1	3.50	4.00	1.63	YES
L0000937	0	0.11550E-08	403545.8	3759111.0	60.0	3.50	4.00	1.63	YES
L0000938	0	0.11550E-08	403537.4	3759109.3	59.9	3.50	4.00	1.63	YES
L0000939	0	0.11550E-08	403529.0	3759107.7	59.7	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
L0000940	0	0.11550E-08	403520.5	3759106.1	59.6	3.50	4.00	1.63	YES	
L0000941	0	0.11550E-08	403512.1	3759104.5	59.5	3.50	4.00	1.63	YES	
L0000942	0	0.11550E-08	403503.7	3759102.8	59.4	3.50	4.00	1.63	YES	
L0000943	0	0.11550E-08	403495.2	3759101.2	59.3	3.50	4.00	1.63	YES	
L0000944	0	0.11550E-08	403486.8	3759099.6	59.1	3.50	4.00	1.63	YES	
L0000945	0	0.11550E-08	403478.4	3759097.9	58.9	3.50	4.00	1.63	YES	
L0000946	0	0.11550E-08	403469.9	3759096.3	58.8	3.50	4.00	1.63	YES	
L0000947	0	0.11550E-08	403461.5	3759094.7	58.5	3.50	4.00	1.63	YES	
L0000948	0	0.11550E-08	403453.1	3759093.1	58.3	3.50	4.00	1.63	YES	
L0000949	0	0.11550E-08	403444.6	3759091.4	58.0	3.50	4.00	1.63	YES	
L0000950	0	0.11550E-08	403436.2	3759089.8	57.8	3.50	4.00	1.63	YES	
L0000951	0	0.11550E-08	403427.8	3759088.2	57.5	3.50	4.00	1.63	YES	
L0000952	0	0.11550E-08	403419.3	3759086.5	57.4	3.50	4.00	1.63	YES	
L0000953	0	0.11550E-08	403410.9	3759084.9	57.3	3.50	4.00	1.63	YES	
L0000954	0	0.11550E-08	403402.5	3759083.3	57.2	3.50	4.00	1.63	YES	
L0000955	0	0.11550E-08	403394.0	3759081.6	57.1	3.50	4.00	1.63	YES	
L0000956	0	0.11550E-08	403385.6	3759080.0	57.1	3.50	4.00	1.63	YES	
L0000957	0	0.11550E-08	403377.1	3759078.4	57.0	3.50	4.00	1.63	YES	

L0000958	0	0.11550E-08	403368.7	3759076.8	56.9	3.50	4.00	1.63	YES
L0000959	0	0.11550E-08	403360.3	3759075.1	56.9	3.50	4.00	1.63	YES
L0000960	0	0.11550E-08	403351.8	3759073.5	56.8	3.50	4.00	1.63	YES
L0000961	0	0.11550E-08	403343.4	3759071.9	56.8	3.50	4.00	1.63	YES
L0000962	0	0.11550E-08	403335.0	3759070.2	56.7	3.50	4.00	1.63	YES
L0000963	0	0.11550E-08	403326.5	3759068.6	56.6	3.50	4.00	1.63	YES
L0000964	0	0.11550E-08	403318.1	3759067.0	56.6	3.50	4.00	1.63	YES
L0000965	0	0.11550E-08	403309.7	3759065.4	56.4	3.50	4.00	1.63	YES
L0000966	0	0.11550E-08	403301.2	3759063.7	56.2	3.50	4.00	1.63	YES
L0000967	0	0.11550E-08	403292.8	3759062.1	56.0	3.50	4.00	1.63	YES
L0000968	0	0.11550E-08	403284.4	3759060.5	55.7	3.50	4.00	1.63	YES
L0000969	0	0.11550E-08	403275.9	3759058.8	55.4	3.50	4.00	1.63	YES
L0000970	0	0.11550E-08	403267.5	3759057.2	55.1	3.50	4.00	1.63	YES
L0000971	0	0.11550E-08	403259.1	3759055.6	54.9	3.50	4.00	1.63	YES
L0000972	0	0.11550E-08	403250.6	3759053.9	54.8	3.50	4.00	1.63	YES
L0000973	0	0.11550E-08	403242.2	3759052.3	54.5	3.50	4.00	1.63	YES
L0000974	0	0.11550E-08	403233.8	3759050.7	54.5	3.50	4.00	1.63	YES
L0000975	0	0.11550E-08	403225.3	3759049.1	54.5	3.50	4.00	1.63	YES
L0000976	0	0.11550E-08	403216.9	3759047.4	54.4	3.50	4.00	1.63	YES
L0000977	0	0.11550E-08	403208.5	3759045.8	54.2	3.50	4.00	1.63	YES
L0000978	0	0.11550E-08	403200.0	3759044.2	54.0	3.50	4.00	1.63	YES
L0000979	0	0.11550E-08	403191.6	3759042.5	53.8	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
L0000980	0	0.11550E-08	403183.1	3759040.9	53.5	3.50	4.00	1.63	YES	
L0000981	0	0.11550E-08	403174.7	3759039.3	53.3	3.50	4.00	1.63	YES	
L0000982	0	0.11550E-08	403166.3	3759037.7	53.0	3.50	4.00	1.63	YES	
L0000983	0	0.11550E-08	403157.8	3759036.0	52.8	3.50	4.00	1.63	YES	
L0000984	0	0.11550E-08	403149.4	3759034.4	52.6	3.50	4.00	1.63	YES	
L0000985	0	0.11550E-08	403141.0	3759032.8	52.4	3.50	4.00	1.63	YES	
L0000986	0	0.11550E-08	403132.5	3759031.1	52.2	3.50	4.00	1.63	YES	
L0000987	0	0.34150E-07	403545.9	3759463.3	69.3	3.50	4.70	1.63	YES	
L0000988	0	0.34150E-07	403545.8	3759471.8	69.5	3.50	4.70	1.63	YES	
L0000989	0	0.34150E-07	403542.3	3759481.3	69.7	3.50	4.70	1.63	YES	
L0000990	0	0.34150E-07	403538.2	3759490.5	69.9	3.50	4.70	1.63	YES	
L0000991	0	0.34150E-07	403533.2	3759499.3	70.1	3.50	4.70	1.63	YES	
L0000992	0	0.34150E-07	403528.2	3759508.1	70.2	3.50	4.70	1.63	YES	
L0000993	0	0.34150E-07	403523.1	3759516.9	70.1	3.50	4.70	1.63	YES	
L0000994	0	0.34150E-07	403518.1	3759525.6	70.3	3.50	4.70	1.63	YES	

L0000995	0	0.34150E-07	403513.1	3759534.4	70.5	3.50	4.70	1.63	YES
L0000996	0	0.34150E-07	403508.1	3759543.2	70.8	3.50	4.70	1.63	YES
L0000997	0	0.34150E-07	403503.0	3759552.0	71.1	3.50	4.70	1.63	YES
L0000998	0	0.34150E-07	403498.0	3759560.8	71.1	3.50	4.70	1.63	YES
L0000999	0	0.34150E-07	403493.0	3759569.5	71.0	3.50	4.70	1.63	YES
L0001000	0	0.34150E-07	403488.0	3759578.3	71.0	3.50	4.70	1.63	YES
L0001001	0	0.34150E-07	403483.0	3759587.1	71.0	3.50	4.70	1.63	YES
L0001002	0	0.34150E-07	403478.0	3759595.9	71.1	3.50	4.70	1.63	YES
L0001003	0	0.34150E-07	403473.0	3759604.7	71.2	3.50	4.70	1.63	YES
L0001004	0	0.34150E-07	403468.0	3759613.5	71.4	3.50	4.70	1.63	YES
L0001005	0	0.34150E-07	403463.0	3759622.3	71.6	3.50	4.70	1.63	YES
L0001006	0	0.34150E-07	403458.0	3759631.1	71.8	3.50	4.70	1.63	YES
L0001007	0	0.34150E-07	403453.0	3759639.9	71.8	3.50	4.70	1.63	YES
L0001008	0	0.34150E-07	403447.6	3759648.4	71.9	3.50	4.70	1.63	YES
L0001009	0	0.34150E-07	403442.1	3759657.0	71.9	3.50	4.70	1.63	YES
L0001010	0	0.34150E-07	403436.7	3759665.5	72.0	3.50	4.70	1.63	YES
L0001011	0	0.34150E-07	403431.3	3759674.0	72.2	3.50	4.70	1.63	YES
L0001012	0	0.34150E-07	403425.8	3759682.6	72.3	3.50	4.70	1.63	YES
L0001013	0	0.34150E-07	403420.4	3759691.1	72.3	3.50	4.70	1.63	YES
L0001014	0	0.34150E-07	403415.0	3759699.6	72.3	3.50	4.70	1.63	YES
L0001015	0	0.34150E-07	403409.6	3759708.2	72.4	3.50	4.70	1.63	YES
L0001016	0	0.34150E-07	403404.1	3759716.7	72.5	3.50	4.70	1.63	YES
L0001017	0	0.34150E-07	403398.7	3759725.2	72.5	3.50	4.70	1.63	YES
L0001018	0	0.34150E-07	403393.6	3759733.9	72.5	3.50	4.70	1.63	YES
L0001019	0	0.34150E-07	403388.4	3759742.7	72.4	3.50	4.70	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
L0001020	0	0.34150E-07	403383.3	3759751.4	72.4	3.50	4.70	1.63	YES	
L0001021	0	0.34150E-07	403378.1	3759760.1	72.3	3.50	4.70	1.63	YES	
L0001022	0	0.34150E-07	403373.0	3759768.8	72.2	3.50	4.70	1.63	YES	
L0001023	0	0.34150E-07	403367.8	3759777.5	72.1	3.50	4.70	1.63	YES	
L0001024	0	0.34150E-07	403362.7	3759786.2	72.1	3.50	4.70	1.63	YES	
L0001025	0	0.34150E-07	403357.5	3759794.9	72.0	3.50	4.70	1.63	YES	
L0001026	0	0.34150E-07	403352.4	3759803.6	72.0	3.50	4.70	1.63	YES	
L0001027	0	0.34150E-07	403347.2	3759812.3	72.0	3.50	4.70	1.63	YES	
L0001028	0	0.34150E-07	403342.1	3759821.0	71.9	3.50	4.70	1.63	YES	
L0001029	0	0.34150E-07	403337.0	3759829.7	71.9	3.50	4.70	1.63	YES	
L0001030	0	0.34150E-07	403331.8	3759838.4	71.8	3.50	4.70	1.63	YES	
L0001031	0	0.34150E-07	403326.7	3759847.1	71.8	3.50	4.70	1.63	YES	

L0001032	0	0.34150E-07	403321.5	3759855.8	71.7	3.50	4.70	1.63	YES
L0001033	0	0.34150E-07	403316.4	3759864.6	71.7	3.50	4.70	1.63	YES
L0001034	0	0.34150E-07	403311.2	3759873.3	71.5	3.50	4.70	1.63	YES
L0001035	0	0.34150E-07	403306.1	3759882.0	71.4	3.50	4.70	1.63	YES
L0001036	0	0.34150E-07	403300.9	3759890.7	71.4	3.50	4.70	1.63	YES
L0001037	0	0.34150E-07	403295.8	3759899.4	71.3	3.50	4.70	1.63	YES
L0001038	0	0.34150E-07	403290.6	3759908.1	71.3	3.50	4.70	1.63	YES
L0001039	0	0.34150E-07	403285.5	3759916.8	71.3	3.50	4.70	1.63	YES
L0001040	0	0.34150E-07	403280.3	3759925.5	71.2	3.50	4.70	1.63	YES
L0001041	0	0.34150E-07	403275.2	3759934.2	71.2	3.50	4.70	1.63	YES
L0001042	0	0.34150E-07	403270.0	3759942.9	71.2	3.50	4.70	1.63	YES
L0001043	0	0.34150E-07	403264.9	3759951.6	71.2	3.50	4.70	1.63	YES
L0001044	0	0.34150E-07	403259.7	3759960.3	71.1	3.50	4.70	1.63	YES
L0001045	0	0.34150E-07	403254.6	3759969.0	71.0	3.50	4.70	1.63	YES
L0001046	0	0.34150E-07	403249.4	3759977.7	71.0	3.50	4.70	1.63	YES
L0001047	0	0.34150E-07	403244.3	3759986.5	71.0	3.50	4.70	1.63	YES
L0001048	0	0.34150E-07	403239.2	3759995.2	70.9	3.50	4.70	1.63	YES
L0001049	0	0.34150E-07	403234.0	3760003.9	70.9	3.50	4.70	1.63	YES
L0001050	0	0.34150E-07	403228.9	3760012.6	70.8	3.50	4.70	1.63	YES
L0001051	0	0.34150E-07	403223.7	3760021.3	70.8	3.50	4.70	1.63	YES
L0001052	0	0.34150E-07	403218.6	3760030.0	70.8	3.50	4.70	1.63	YES
L0001053	0	0.34150E-07	403213.4	3760038.7	70.7	3.50	4.70	1.63	YES
L0001054	0	0.34150E-07	403208.3	3760047.4	70.6	3.50	4.70	1.63	YES
L0001055	0	0.34150E-07	403203.1	3760056.1	70.5	3.50	4.70	1.63	YES
L0001056	0	0.34150E-07	403198.0	3760064.8	70.5	3.50	4.70	1.63	YES
L0001057	0	0.34150E-07	403192.8	3760073.5	70.5	3.50	4.70	1.63	YES
L0001058	0	0.34150E-07	403187.7	3760082.2	70.5	3.50	4.70	1.63	YES
L0001059	0	0.34150E-07	403182.5	3760090.9	70.5	3.50	4.70	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
L0001060	0	0.34150E-07	403177.4	3760099.6	70.4	3.50	4.70	1.63	YES	
L0001061	0	0.34150E-07	403172.2	3760108.4	70.4	3.50	4.70	1.63	YES	
L0001062	0	0.34150E-07	403167.1	3760117.1	70.5	3.50	4.70	1.63	YES	
L0001063	0	0.34150E-07	403161.9	3760125.8	70.5	3.50	4.70	1.63	YES	
L0001064	0	0.34150E-07	403156.8	3760134.5	70.4	3.50	4.70	1.63	YES	
L0001065	0	0.34150E-07	403151.6	3760143.2	70.3	3.50	4.70	1.63	YES	
L0001066	0	0.34150E-07	403146.5	3760151.9	70.3	3.50	4.70	1.63	YES	
L0001067	0	0.34150E-07	403141.3	3760160.6	70.3	3.50	4.70	1.63	YES	
L0001068	0	0.34150E-07	403136.2	3760169.3	70.3	3.50	4.70	1.63	YES	

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L0001069         0   0.34150E-07  403131.1 3760178.0    70.2     3.50     4.70     1.63     YES
L0001070         0   0.34150E-07  403125.9 3760186.7    70.1     3.50     4.70     1.63     YES
L0001071         0   0.34150E-07  403120.8 3760195.4    70.0     3.50     4.70     1.63     YES
L0001072         0   0.34150E-07  403115.6 3760204.1    70.0     3.50     4.70     1.63     YES
L0001073         0   0.34150E-07  403110.5 3760212.8    70.1     3.50     4.70     1.63     YES
L0001074         0   0.34150E-07  403105.3 3760221.5    70.1     3.50     4.70     1.63     YES
L0001075         0   0.34150E-07  403100.2 3760230.3    70.2     3.50     4.70     1.63     YES
L0001076         0   0.34150E-07  403095.0 3760239.0    70.2     3.50     4.70     1.63     YES
L0001077         0   0.34150E-07  403089.9 3760247.7    70.3     3.50     4.70     1.63     YES
L0001078         0   0.34150E-07  403084.7 3760256.4    70.4     3.50     4.70     1.63     YES
L0001079         0   0.34150E-07  403079.6 3760265.1    70.4     3.50     4.70     1.63     YES
L0001080         0   0.34150E-07  403074.4 3760273.8    70.5     3.50     4.70     1.63     YES
L0001081         0   0.34150E-07  403069.3 3760282.5    70.7     3.50     4.70     1.63     YES
L0001082         0   0.34150E-07  403064.1 3760291.2    70.9     3.50     4.70     1.63     YES
L0001083         0   0.34150E-07  403059.0 3760299.9    71.0     3.50     4.70     1.63     YES
L0001084         0   0.34150E-07  403053.8 3760308.6    71.2     3.50     4.70     1.63     YES
L0001085         0   0.34150E-07  403048.7 3760317.3    71.3     3.50     4.70     1.63     YES
L0001086         0   0.34150E-07  403043.5 3760326.0    71.4     3.50     4.70     1.63     YES
L0001087         0   0.34150E-07  403038.4 3760334.7    71.2     3.50     4.70     1.63     YES
L0001088         0   0.34150E-07  403033.3 3760343.4    71.1     3.50     4.70     1.63     YES
L0001089         0   0.34150E-07  403028.1 3760352.1    71.0     3.50     4.70     1.63     YES
L0001090         0   0.34150E-07  403023.0 3760360.9    70.9     3.50     4.70     1.63     YES
L0001091         0   0.34150E-07  403017.8 3760369.6    71.0     3.50     4.70     1.63     YES
L0001092         0   0.34150E-07  403012.7 3760378.3    71.1     3.50     4.70     1.63     YES

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                    ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2040 to 2053                     ***        18:19:34
                                                                                                          PAGE  10
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID                                        SOURCE IDs
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 ALL        STCK1       , STCK2       , STCK3       , STCK4       , STCK5       , L0000820    , L0000821    , L0000822    ,
            L0000823    , L0000824    , L0000825    , L0000826    , L0000827    , L0000828    , L0000829    , L0000830    ,
            L0000831    , L0000832    , L0000833    , L0000834    , L0000835    , L0000836    , L0000837    , L0000838    ,
            L0000839    , L0000840    , L0000841    , L0000842    , L0000843    , L0000844    , L0000845    , L0000846    ,
            L0000847    , L0000848    , L0000849    , L0000850    , L0000851    , L0000852    , L0000853    , L0000854    ,
            L0000855    , L0000856    , L0000857    , L0000858    , L0000859    , L0000860    , L0000861    , L0000862    ,
            L0000863    , L0000864    , L0000865    , L0000866    , L0000867    , L0000868    , L0000869    , L0000870    ,
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           L0000871    , L0000872    , L0000873    , L0000874    , L0000875    , L0000876    , L0000877    , L0000878    ,
           L0000879    , L0000880    , L0000881    , L0000882    , L0000883    , L0000884    , L0000885    , L0000886    ,
           L0000887    , L0000888    , L0000889    , L0000890    , L0000891    , L0000892    , L0000893    , L0000894    ,
           L0000895    , L0000896    , L0000897    , L0000898    , L0000899    , L0000900    , L0000901    , L0000902    ,
           L0000903    , L0000904    , L0000905    , L0000906    , L0000907    , L0000908    , L0000909    , L0000910    ,
           L0000911    , L0000912    , L0000913    , L0000914    , L0000915    , L0000916    , L0000917    , L0000918    ,
           L0000919    , L0000920    , L0000921    , L0000922    , L0000923    , L0000924    , L0000925    , L0000926    ,
           L0000927    , L0000928    , L0000929    , L0000930    , L0000931    , L0000932    , L0000933    , L0000934    ,
           L0000935    , L0000936    , L0000937    , L0000938    , L0000939    , L0000940    , L0000941    , L0000942    ,
           L0000943    , L0000944    , L0000945    , L0000946    , L0000947    , L0000948    , L0000949    , L0000950    ,
           L0000951    , L0000952    , L0000953    , L0000954    , L0000955    , L0000956    , L0000957    , L0000958    ,
           L0000959    , L0000960    , L0000961    , L0000962    , L0000963    , L0000964    , L0000965    , L0000966    ,
           L0000967    , L0000968    , L0000969    , L0000970    , L0000971    , L0000972    , L0000973    , L0000974    ,
```


*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

```
           L0000975    , L0000976    , L0000977    , L0000978    , L0000979    , L0000980    , L0000981    , L0000982    ,
           L0000983    , L0000984    , L0000985    , L0000986    , L0000987    , L0000988    , L0000989    , L0000990    ,
           L0000991    , L0000992    , L0000993    , L0000994    , L0000995    , L0000996    , L0000997    , L0000998    ,
           L0000999    , L0001000    , L0001001    , L0001002    , L0001003    , L0001004    , L0001005    , L0001006    ,
           L0001007    , L0001008    , L0001009    , L0001010    , L0001011    , L0001012    , L0001013    , L0001014    ,
           L0001015    , L0001016    , L0001017    , L0001018    , L0001019    , L0001020    , L0001021    , L0001022    ,
           L0001023    , L0001024    , L0001025    , L0001026    , L0001027    , L0001028    , L0001029    , L0001030    ,
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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 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 ,

L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 ,

*** 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 , L0000820 , L0000821 , L0000822 ,

L0000823 , L0000824 , L0000825 , L0000826 , L0000827 , L0000828 , L0000829 , L0000830 ,

L0000831 , L0000832 , L0000833 , L0000834 , L0000835 , L0000836 , L0000837 , L0000838 ,

L0000839 , L0000840 , L0000841 , L0000842 , L0000843 , L0000844 , L0000845 , L0000846 ,

L0000847 , L0000848 , L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 ,

L0000855 , L0000856 , L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 ,

L0000863 , L0000864 , L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 ,

L0000871 , L0000872 , L0000873 , L0000874 , L0000875 , L0000876 , L0000877 , L0000878 ,

L0000879 , L0000880 , L0000881 , L0000882 , L0000883 , L0000884 , L0000885 , L0000886 ,

L0000887 , L0000888 , L0000889 , L0000890 , L0000891 , L0000892 , L0000893 , L0000894 ,

L0000895 , L0000896 , L0000897 , L0000898 , L0000899 , L0000900 , L0000901 , L0000902 ,

L0000903 , L0000904 , L0000905 , L0000906 , L0000907 , L0000908 , L0000909 , L0000910 ,

L0000911 , L0000912 , L0000913 , L0000914 , L0000915 , L0000916 , L0000917 , L0000918 ,

L0000919 , L0000920 , L0000921 , L0000922 , L0000923 , L0000924 , L0000925 , L0000926 ,

L0000927 , L0000928 , L0000929 , L0000930 , L0000931 , L0000932 , L0000933 , L0000934 ,

L0000935 , L0000936 , L0000937 , L0000938 , L0000939 , L0000940 , L0000941 , L0000942 ,

L0000943 , L0000944 , L0000945 , L0000946 , L0000947 , L0000948 , L0000949 , L0000950 ,

L0000951 , L0000952 , L0000953 , L0000954 , L0000955 , L0000956 , L0000957 , L0000958 ,

L0000959 , L0000960 , L0000961 , L0000962 , L0000963 , L0000964 , L0000965 , L0000966 ,

L0000967 , L0000968 , L0000969 , L0000970 , L0000971 , L0000972 , L0000973 , L0000974 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs

L0000975 , L0000976 , L0000977 , L0000978 , L0000979 , L0000980 , L0000981 , L0000982 ,

L0000983 , L0000984 , L0000985 , L0000986 , L0000987 , L0000988 , L0000989 , L0000990 ,

L0000991 , L0000992 , L0000993 , L0000994 , L0000995 , L0000996 , L0000997 , L0000998 ,

L0000999 , L0001000 , L0001001 , L0001002 , L0001003 , L0001004 , L0001005 , L0001006 ,

L0001007 , L0001008 , L0001009 , L0001010 , L0001011 , L0001012 , L0001013 , L0001014 ,

L0001015 , L0001016 , L0001017 , L0001018 , L0001019 , L0001020 , L0001021 , L0001022 ,

L0001023 , L0001024 , L0001025 , L0001026 , L0001027 , L0001028 , L0001029 , 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 ,

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK1

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-17.3,	-34.3,	2	10.7,	215.4,	251.4,	-23.3,	-13.7,
3	10.7,	200.8,	258.9,	-28.7,	6.4,	4	10.7,	182.0,	258.5,	-33.1,	25.4,
5	10.7,	157.6,	250.3,	-36.6,	43.6,	6	10.7,	128.7,	238.5,	-39.7,	60.4,
7	10.7,	150.6,	242.1,	-47.8,	78.5,	8	10.7,	185.1,	238.4,	-54.5,	88.7,
9	10.7,	213.9,	228.2,	-60.3,	96.2,	10	10.7,	236.2,	225.2,	-78.3,	100.8,
11	10.7,	251.4,	215.4,	-94.0,	102.4,	12	10.7,	258.9,	200.8,	-106.8,	100.8,
13	10.7,	258.5,	182.0,	-116.4,	96.1,	14	10.7,	250.3,	157.6,	-122.4,	88.6,
15	10.7,	238.5,	128.7,	-124.7,	79.5,	16	10.7,	242.1,	150.6,	-153.8,	73.2,
17	10.7,	238.4,	185.1,	-181.3,	64.7,	18	10.7,	228.2,	213.9,	-203.2,	53.8,
19	10.7,	225.2,	236.2,	-219.0,	34.3,	20	10.7,	215.4,	251.4,	-228.1,	13.7,
21	10.7,	200.8,	258.9,	-230.2,	-6.4,	22	10.7,	182.0,	258.5,	-225.4,	-25.4,
23	10.7,	157.6,	250.3,	-213.7,	-43.6,	24	10.7,	128.7,	238.5,	-198.8,	-60.4,
25	10.7,	150.6,	242.1,	-194.3,	-78.5,	26	10.7,	185.1,	238.4,	-183.9,	-88.7,
27	10.7,	213.9,	228.2,	-168.0,	-96.2,	28	10.7,	236.2,	225.2,	-146.9,	-100.8,
29	10.7,	251.4,	215.4,	-121.4,	-102.4,	30	10.7,	258.9,	200.8,	-94.0,	-100.8,
31	10.7,	258.5,	182.0,	-65.6,	-96.1,	32	10.7,	250.3,	157.6,	-35.2,	-88.6,
33	10.7,	238.5,	128.7,	-4.0,	-79.5,	34	10.7,	242.1,	150.6,	3.2,	-73.2,
35	10.7,	238.4,	185.1,	-3.8,	-64.7,	36	10.7,	228.2,	213.9,	-10.7,	-53.8,

SOURCE ID: STCK2

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	10.7,	225.2,	236.2,	-60.6,	21.5,	2	10.7,	215.4,	251.4,	-75.6,	33.7,
3	10.7,	200.8,	258.9,	-88.4,	44.0,	4	10.7,	182.0,	258.5,	-98.5,	52.0,
5	10.7,	157.6,	250.3,	-105.6,	58.4,	6	10.7,	128.7,	238.5,	-110.3,	63.0,
7	10.7,	150.6,	242.1,	-117.8,	68.9,	8	10.7,	185.1,	238.4,	-121.7,	67.1,
9	10.7,	213.9,	228.2,	-122.7,	63.3,	10	10.7,	236.2,	225.2,	-134.1,	57.5,
11	10.7,	251.4,	215.4,	-141.4,	50.0,	12	10.7,	258.9,	200.8,	-144.4,	41.0,
13	10.7,	258.5,	182.0,	-143.0,	30.8,	14	10.7,	250.3,	157.6,	-137.2,	19.6,
15	10.7,	238.5,	128.7,	-127.3,	9.0,	16	10.7,	242.1,	150.6,	-144.2,	3.3,
17	10.7,	238.4,	185.1,	-159.6,	-2.5,	18	10.7,	228.2,	213.9,	-170.2,	-8.6,

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  19   10.7,  225.2,  236.2, -175.6,  -21.5,     20   10.7,  215.4,  251.4, -175.7,  -33.7,
  21   10.7,  200.8,  258.9, -170.5,  -44.0,     22   10.7,  182.0,  258.5, -160.0,  -52.0,
  23   10.7,  157.6,  250.3, -144.7,  -58.4,     24   10.7,  128.7,  238.5, -128.2,  -63.0,
  25   10.7,  150.6,  242.1, -124.4,  -68.9,     26   10.7,  185.1,  238.4, -116.7,  -67.1,
  27   10.7,  213.9,  228.2, -105.5,  -63.3,     28   10.7,  236.2,  225.2,  -91.1,  -57.5,
  29   10.7,  251.4,  215.4,  -74.0,  -50.0,     30   10.7,  258.9,  200.8,  -56.4,  -41.0,
  31   10.7,  258.5,  182.0,  -39.0,  -30.8,     32   10.7,  250.3,  157.6,  -20.4,  -19.6,
  33   10.7,  238.5,  128.7,   -1.3,   -9.0,     34   10.7,  242.1,  150.6,   -6.4,   -3.3,
  35   10.7,  238.4,  185.1,  -25.4,    2.5,     36   10.7,  228.2,  213.9,  -43.7,    8.6,


SOURCE ID: STCK3
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   10.7,  225.2,  236.2,  -30.3,  -15.3,      2   10.7,  215.4,  251.4,  -39.5,    2.7,
   3   10.7,  200.8,  258.9,  -47.4,   19.8,      4   10.7,  182.0,  258.5,  -53.9,   35.3,
   5   10.7,  157.6,  250.3,  -58.8,   49.7,      6   10.7,  128.7,  238.5,  -62.6,   62.5,
   7   10.7,  150.6,  242.1,  -70.8,   76.7,      8   10.7,  185.1,  238.4,  -76.8,   82.9,
   9   10.7,  213.9,  228.2,  -81.2,   86.7,     10   10.7,  236.2,  225.2,  -97.3,   87.8,
  11   10.7,  251.4,  215.4, -110.4,   86.2,     12   10.7,  258.9,  200.8, -120.1,   82.0,
  13   10.7,  258.5,  182.0, -126.2,   75.4,     14   10.7,  250.3,  157.6, -128.5,   66.4,
  15   10.7,  238.5,  128.7, -126.9,   56.6,     16   10.7,  242.1,  150.6, -152.0,   50.3,
  17   10.7,  238.4,  185.1, -175.5,   42.4,     18   10.7,  228.2,  213.9, -193.6,   32.9,
  19   10.7,  225.2,  236.2, -205.9,   15.3,     20   10.7,  215.4,  251.4, -211.9,   -2.7,
  21   10.7,  200.8,  258.9, -211.5,  -19.8,     22   10.7,  182.0,  258.5, -204.6,  -35.3,
  23   10.7,  157.6,  250.3, -191.6,  -49.7,     24   10.7,  128.7,  238.5, -175.9,  -62.5,
  25   10.7,  150.6,  242.1, -171.4,  -76.7,     26   10.7,  185.1,  238.4, -161.7,  -82.9,
  27   10.7,  213.9,  228.2, -147.0,  -86.7,     28   10.7,  236.2,  225.2, -127.9,  -87.8,
  29   10.7,  251.4,  215.4, -105.0,  -86.2,     30   10.7,  258.9,  200.8,  -80.6,  -82.0,
  31   10.7,  258.5,  182.0,  -55.7,  -75.4,     32   10.7,  250.3,  157.6,  -29.1,  -66.4,
  33   10.7,  238.5,  128.7,   -1.8,  -56.6,     34   10.7,  242.1,  150.6,    1.4,  -50.3,
  35   10.7,  238.4,  185.1,   -9.6,  -42.4,     36   10.7,  228.2,  213.9,  -20.3,  -32.9,


SOURCE ID: STCK4
 IFV    BH      BW      BL     XADJ    YADJ      IFV    BH      BW      BL     XADJ    YADJ
   1   10.7,  225.2,  236.2,  -83.5,   47.3,      2   10.7,  215.4,  251.4, -102.7,   55.1,
   3   10.7,  200.8,  258.9, -118.8,   60.4,      4   10.7,  182.0,  258.5, -131.3,   62.9,
   5   10.7,  157.6,  250.3, -139.7,   63.5,      6   10.7,  128.7,  238.5, -144.8,   62.0,
   7   10.7,  150.6,  242.1, -151.6,   61.9,      8   10.7,  185.1,  238.4, -153.8,   54.4,
   9   10.7,  213.9,  228.2, -152.1,   45.2,     10   10.7,  236.2,  225.2, -159.9,   34.6,
  11   10.7,  251.4,  215.4, -162.8,   23.0,     12   10.7,  258.9,  200.8, -160.8,   10.7,
  13   10.7,  258.5,  182.0, -153.9,   -2.0,     14   10.7,  250.3,  157.6, -142.3,  -14.6,
  15   10.7,  238.5,  128.7, -126.4,  -25.6,     16   10.7,  242.1,  150.6, -137.2,  -30.5,
  17   10.7,  238.4,  185.1, -146.9,  -34.6,     18   10.7,  228.2,  213.9, -152.1,  -38.0,
  19   10.7,  225.2,  236.2, -152.7,  -47.3,     20   10.7,  215.4,  251.4, -148.7,  -55.1,
  21   10.7,  200.8,  258.9, -140.1,  -60.4,     22   10.7,  182.0,  258.5, -127.3,  -62.9,
  23   10.7,  157.6,  250.3, -110.6,  -63.5,     24   10.7,  128.7,  238.5,  -93.7,  -62.0,
  25   10.7,  150.6,  242.1,  -90.5,  -61.9,     26   10.7,  185.1,  238.4,  -84.6,  -54.4,
  27   10.7,  213.9,  228.2,  -76.1,  -45.2,     28   10.7,  236.2,  225.2,  -65.3,  -34.6,
  29   10.7,  251.4,  215.4,  -52.5,  -23.0,     30   10.7,  258.9,  200.8,  -40.0,  -10.7,
  31   10.7,  258.5,  182.0,  -28.1,    2.0,     32   10.7,  250.3,  157.6,  -15.3,   14.6,
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33	10.7,	238.5,	128.7,	-2.3,	25.6,	34	10.7,	242.1,	150.6,	-13.4,	30.5,
35	10.7,	238.4,	185.1,	-38.1,	34.6,	36	10.7,	228.2,	213.9,	-61.8,	38.0,

*** 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	10.7,	225.2,	236.2,	-95.8,	86.2,	2	10.7,	215.4,	251.4,	-121.5,	91.3,
3	10.7,	200.8,	258.9,	-143.6,	92.8,	4	10.7,	182.0,	258.5,	-161.3,	90.5,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	10.7,	150.6,	242.1,	-191.4,	70.8,	8	10.7,	185.1,	238.4,	-194.6,	56.2,
9	10.7,	213.9,	228.2,	-192.5,	39.9,	10	10.7,	236.2,	225.2,	-198.8,	22.4,
11	10.7,	251.4,	215.4,	-199.0,	4.2,	12	10.7,	258.9,	200.8,	-193.1,	-14.2,
13	10.7,	258.5,	182.0,	-181.4,	-32.0,	14	10.7,	250.3,	157.6,	-164.2,	-49.0,
15	10.7,	238.5,	128.7,	-142.0,	-63.2,	16	10.7,	242.1,	150.6,	-146.1,	-70.3,
17	10.7,	238.4,	185.1,	-148.7,	-75.3,	18	10.7,	228.2,	213.9,	-146.8,	-78.4,
19	10.7,	225.2,	236.2,	-140.5,	-86.2,	20	10.7,	215.4,	251.4,	-129.8,	-91.3,
21	10.7,	200.8,	258.9,	-115.3,	-92.8,	22	10.7,	182.0,	258.5,	-97.2,	-90.5,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	10.7,	150.6,	242.1,	-50.7,	-70.8,	26	10.7,	185.1,	238.4,	-43.9,	-56.2,
27	10.7,	213.9,	228.2,	-35.7,	-39.9,	28	10.7,	236.2,	225.2,	-26.4,	-22.4,
29	10.7,	251.4,	215.4,	-16.4,	-4.2,	30	10.7,	258.9,	200.8,	-7.6,	14.2,
31	10.7,	258.5,	182.0,	-0.5,	32.0,	32	10.7,	250.3,	157.6,	6.6,	49.0,
33	10.7,	238.5,	128.7,	13.3,	63.2,	34	10.7,	242.1,	150.6,	-4.5,	70.3,
35	10.7,	238.4,	185.1,	-36.4,	75.3,	36	10.7,	228.2,	213.9,	-67.1,	78.4,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

402680.3, 402746.2, 402812.2, 402878.1, 402944.0, 403010.0, 403075.9, 403141.8, 403207.8, 403273.7,
403339.6, 403405.5, 403471.5, 403537.4, 403603.3, 403669.3, 403735.2, 403801.1, 403867.1, 403933.0,
403998.9,

*** Y-COORDINATES OF GRID ***

(METERS)

3759000.9, 3759070.5, 3759140.2, 3759209.8, 3759279.4, 3759349.0, 3759418.7, 3759488.3, 3759557.9, 3759627.6,
3759697.2, 3759766.8, 3759836.5, 3759906.1, 3759975.7, 3760045.4, 3760115.0, 3760184.6, 3760254.2, 3760323.9,
3760393.5,

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	65.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	56.20	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	59.50
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	55.00	55.10	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)

(METERS)	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	84.30	85.20	87.50	88.10	90.20	92.90
3760323.87	76.50	78.70	80.70	82.30	83.80	84.90	86.10	88.80	90.70
3760254.24	75.30	77.80	78.80	80.80	82.10	83.20	84.90	87.20	89.70
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	84.00	86.10	88.20
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	87.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	66.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 403867.06	403932.99	403998.92
3760393.50	94.90	97.60	99.60
3760323.87	92.60	95.30	97.80
3760254.24	91.60	94.30	96.20
3760184.61	91.00	92.90	95.10
3760114.98	90.20	92.20	94.00
3760045.35	89.50	91.10	93.10
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60
3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90

3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	62.00	64.60	66.80	67.50	69.20	71.30	74.00	74.40	75.60
3760323.87	61.50	63.50	64.90	67.20	68.40	69.90	72.30	73.10	74.70
3760254.24	60.80	62.50	64.20	65.10	67.40	69.00	70.00	72.20	73.80
3760184.61	60.10	61.70	63.70	64.90	66.60	67.60	68.80	70.80	72.40
3760114.98	59.00	60.70	62.00	64.10	65.70	66.50	68.20	69.80	71.60
3760045.35	58.30	59.50	61.50	63.10	64.00	65.80	66.90	69.40	70.50
3759975.72	57.00	58.60	60.20	61.60	63.60	64.80	66.50	68.20	69.70
3759906.09	56.50	57.60	59.30	61.00	62.80	64.20	65.80	68.50	69.10
3759836.46	55.90	57.20	58.30	61.10	62.20	64.00	65.30	67.60	68.60
3759766.83	55.30	56.70	58.00	59.60	61.70	63.40	64.80	66.60	68.00
3759697.20	54.80	56.00	57.50	59.10	60.10	62.60	64.20	66.70	67.20
3759627.57	53.30	55.20	56.90	58.00	59.80	61.70	63.50	67.00	67.30
3759557.94	53.50	54.60	56.00	57.30	59.10	61.90	62.90	66.20	66.70
3759488.31	51.80	53.90	55.10	56.40	58.00	59.70	61.40	63.00	64.10
3759418.68	50.80	52.80	54.60	56.00	57.20	58.40	59.10	61.70	62.60
3759349.05	50.40	52.10	52.60	55.30	56.20	57.70	59.00	60.90	62.80
3759279.42	49.40	50.10	51.70	53.20	54.30	57.40	56.70	57.80	62.60
3759209.79	48.40	49.50	50.60	51.50	53.30	55.00	54.60	55.20	57.50
3759140.16	48.00	48.80	49.40	50.80	51.50	53.10	57.50	56.80	56.40
3759070.53	47.80	48.10	48.50	50.30	50.60	52.20	52.30	53.40	55.10
3759000.90	47.60	48.10	48.60	48.60	49.40	50.50	51.20	52.40	53.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	78.20	79.70	82.10	324.50	361.90	361.90	361.90	361.90	361.90
3760323.87	76.50	78.70	80.70	82.30	324.50	361.90	361.90	361.90	361.90
3760254.24	75.30	77.80	78.80	80.80	82.10	324.70	324.70	361.90	361.90
3760184.61	74.00	76.90	77.40	79.20	80.60	81.90	324.50	324.70	336.70
3760114.98	73.70	75.60	76.50	77.90	79.80	81.70	83.80	85.40	323.90
3760045.35	72.90	74.20	75.90	77.00	79.10	81.80	83.40	85.10	87.90
3759975.72	71.60	73.20	75.20	76.70	78.70	81.10	82.90	84.40	86.90
3759906.09	70.70	72.60	74.40	76.20	77.80	80.20	81.90	83.50	85.20
3759836.46	70.40	72.00	74.20	76.20	77.40	79.40	80.90	82.10	83.70
3759766.83	67.50	71.30	73.10	74.40	76.10	77.60	79.10	80.30	82.00
3759697.20	68.00	68.80	72.10	73.40	74.30	75.80	77.50	78.70	80.30
3759627.57	67.70	68.10	70.40	71.80	73.40	74.60	75.60	76.90	78.60
3759557.94	66.40	67.70	68.90	70.30	72.00	73.00	74.20	75.10	77.10
3759488.31	65.70	66.00	67.40	68.50	69.90	71.20	72.70	73.40	74.60
3759418.68	64.20	64.90	65.40	66.70	67.80	69.50	70.50	71.40	72.90
3759349.05	62.40	63.30	63.70	65.20	66.10	67.60	68.70	69.40	70.10
3759279.42	60.80	62.10	62.10	62.90	64.30	65.40	67.40	67.50	69.00
3759209.79	58.40	59.30	60.40	61.40	62.60	63.90	65.10	65.90	67.10
3759140.16	57.00	57.80	58.80	60.00	60.50	61.80	63.70	70.00	66.20
3759070.53	55.60	56.70	57.40	58.60	59.70	61.70	63.40	63.80	64.80
3759000.90	54.90	56.70	56.80	58.20	59.10	61.40	62.10	63.00	64.20

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	403867.06	403932.99	403998.92
3760393.50	361.90	361.90	361.90
3760323.87	361.90	361.90	361.90
3760254.24	361.90	361.90	361.90
3760184.61	361.10	361.90	361.90
3760114.98	324.50	324.70	336.70
3760045.35	89.50	91.10	323.90
3759975.72	88.40	89.80	91.70
3759906.09	86.70	88.10	89.40
3759836.46	84.90	86.30	87.40
3759766.83	83.20	84.30	85.60

3759697.20	81.50	82.50	83.40
3759627.57	79.60	80.50	81.30
3759557.94	77.60	78.60	78.90
3759488.31	75.80	76.70	76.90
3759418.68	73.60	74.50	75.00
3759349.05	71.50	72.40	73.40
3759279.42	69.70	70.80	72.20
3759209.79	68.20	69.70	71.50
3759140.16	67.40	68.50	70.00
3759070.53	66.00	67.90	69.10
3759000.90	65.80	66.90	68.20

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

(403076.6, 3759566.9,	63.0,	63.0,	0.0);	(403074.6, 3759594.7,	63.1,	63.1,	0.0);
(403074.3, 3759652.4,	63.8,	63.8,	0.0);	(403036.2, 3759545.2,	61.6,	61.6,	0.0);
(403491.1, 3759689.7,	73.7,	73.7,	0.0);	(403558.2, 3759512.8,	71.0,	71.0,	0.0);
(403587.6, 3759479.4,	70.9,	70.9,	0.0);	(403471.1, 3759691.3,	73.3,	73.3,	0.0);
(403097.0, 3760166.2,	69.1,	69.1,	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)
L0000824	403339.6	3759627.6	0.57
L0000825	403339.6	3759627.6	-7.10
L0000826	403339.6	3759627.6	-0.35
L0000842	403207.8	3759557.9	-4.23
L0000843	403207.8	3759557.9	-2.88
L0000850	403405.5	3759627.6	-4.59
L0000851	403405.5	3759627.6	-3.45
L0000881	403537.4	3759418.7	0.82
L0000909	403669.3	3759209.8	-3.56
L0000910	403669.3	3759209.8	-5.02
L0000961	403339.6	3759070.5	-4.58

L0000962	403339.6	3759070.5	-3.94
L0000989	403537.4	3759488.3	-1.57
L0000990	403537.4	3759488.3	-7.74
L0001005	403471.5	3759627.6	-0.10
L0001014	403405.5	3759697.2	-0.35
L0001029	403339.6	3759836.5	-2.86
L0001030	403339.6	3759836.5	-2.05
L0001053	403207.8	3760045.4	-1.37
L0001054	403207.8	3760045.4	-7.99
L0001078	403075.9	3760254.2	-1.02

*** 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
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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\PICO_V9_ADJU\PICO_v9.SFC Met Version: 16216
Profile file: E:\New MET data\PICO_V9_ADJU\PICO_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3166 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2010 Year: 2010

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
10	01	01	1	01	-38.6	0.384	-9.000	-9.000	-999.	572.	162.4	0.34	0.73	1.00	3.10	321.	9.1	283.8	5.5
10	01	01	1	02	-33.5	0.333	-9.000	-9.000	-999.	462.	121.8	0.34	0.73	1.00	2.70	217.	9.1	282.5	5.5
10	01	01	1	03	-21.9	0.218	-9.000	-9.000	-999.	251.	52.2	0.34	0.73	1.00	1.80	290.	9.1	282.5	5.5
10	01	01	1	04	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	255.	9.1	282.0	5.5
10	01	01	1	05	-21.9	0.218	-9.000	-9.000	-999.	245.	52.2	0.34	0.73	1.00	1.80	234.	9.1	282.0	5.5
10	01	01	1	06	-27.1	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	258.	9.1	282.0	5.5
10	01	01	1	07	-27.2	0.269	-9.000	-9.000	-999.	334.	79.5	0.34	0.73	1.00	2.20	213.	9.1	281.4	5.5
10	01	01	1	08	-22.6	0.335	-9.000	-9.000	-999.	466.	151.7	0.34	0.73	0.54	2.70	215.	9.1	282.0	5.5
10	01	01	1	09	26.9	0.249	0.347	0.008	56.	302.	-51.9	0.34	0.73	0.32	1.80	199.	9.1	284.2	5.5
10	01	01	1	10	65.3	0.365	0.593	0.008	116.	529.	-67.5	0.34	0.73	0.24	2.70	117.	9.1	288.1	5.5
10	01	01	1	11	94.5	0.374	0.933	0.008	311.	550.	-50.3	0.34	0.73	0.21	2.70	243.	9.1	290.4	5.5
10	01	01	1	12	103.9	0.279	1.087	0.008	448.	359.	-19.0	0.34	0.73	0.20	1.80	130.	9.1	293.1	5.5
10	01	01	1	13	83.7	0.273	1.073	0.008	533.	343.	-22.0	0.34	0.73	0.20	1.80	282.	9.1	294.9	5.5
10	01	01	1	14	82.0	0.218	1.112	0.008	606.	245.	-11.4	0.34	0.73	0.21	1.30	290.	9.1	295.9	5.5
10	01	01	1	15	38.9	0.202	0.881	0.008	636.	217.	-19.0	0.34	0.73	0.25	1.30	192.	9.1	294.9	5.5
10	01	01	1	16	11.4	0.181	0.588	0.008	643.	185.	-47.4	0.34	0.73	0.33	1.30	218.	9.1	293.8	5.5
10	01	01	1	17	-10.7	0.155	-9.000	-9.000	-999.	147.	31.4	0.34	0.73	0.60	1.30	255.	9.1	292.0	5.5
10	01	01	1	18	-5.5	0.104	-9.000	-9.000	-999.	81.	18.6	0.34	0.73	1.00	0.90	129.	9.1	289.2	5.5
10	01	01	1	19	-11.8	0.154	-9.000	-9.000	-999.	145.	27.8	0.34	0.73	1.00	1.30	264.	9.1	287.5	5.5
10	01	01	1	20	-11.8	0.154	-9.000	-9.000	-999.	144.	27.8	0.34	0.73	1.00	1.30	25.	9.1	287.0	5.5
10	01	01	1	21	-21.6	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	343.	9.1	285.9	5.5
10	01	01	1	22	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	332.	9.1	284.9	5.5
10	01	01	1	23	-21.7	0.218	-9.000	-9.000	-999.	244.	52.2	0.34	0.73	1.00	1.80	178.	9.1	284.2	5.5
10	01	01	1	24	-11.8	0.154	-9.000	-9.000	-999.	145.	27.6	0.34	0.73	1.00	1.30	28.	9.1	283.1	5.5

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	283.8	99.0	-99.00	-99.00
10	01	01	01	9.1	1	321.	3.10	-999.0	99.0	-99.00	-99.00

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

*** 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 ,
L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 , L0000827 ,
L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , L0000834 , L0000835 ,
L0000836 , L0000837 , L0000838 , L0000839 , L0000840 , L0000841 , L0000842 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	402680.32	402746.25	402812.18	402878.11	402944.04	403009.97	403075.90	403141.83	403207.76
3760393.50	0.00006	0.00007	0.00008	0.00010	0.00012	0.00025	0.00018	0.00015	0.00015
3760323.87	0.00007	0.00008	0.00010	0.00012	0.00015	0.00028	0.00034	0.00021	0.00019
3760254.24	0.00008	0.00009	0.00011	0.00013	0.00017	0.00023	0.00049	0.00031	0.00025
3760184.61	0.00009	0.00010	0.00013	0.00015	0.00019	0.00024	0.00034	0.00060	0.00033
3760114.98	0.00010	0.00012	0.00014	0.00018	0.00022	0.00027	0.00034	0.00053	0.00049
3760045.35	0.00011	0.00013	0.00016	0.00020	0.00025	0.00031	0.00038	0.00047	0.00070
3759975.72	0.00012	0.00014	0.00018	0.00022	0.00028	0.00035	0.00043	0.00053	0.00067
3759906.09	0.00013	0.00016	0.00019	0.00024	0.00031	0.00039	0.00050	0.00061	0.00075
3759836.46	0.00013	0.00017	0.00021	0.00027	0.00034	0.00043	0.00056	0.00075	0.00101
3759766.83	0.00014	0.00018	0.00022	0.00028	0.00036	0.00046	0.00063	0.00105	0.00121
3759697.20	0.00015	0.00019	0.00024	0.00030	0.00038	0.00049	0.00073	0.00096	0.00132
3759627.57	0.00015	0.00019	0.00024	0.00031	0.00039	0.00053	0.00089	0.00090	0.00160
3759557.94	0.00015	0.00018	0.00024	0.00030	0.00040	0.00056	0.00090	0.00152	0.00218
3759488.31	0.00014	0.00018	0.00023	0.00029	0.00040	0.00057	0.00092	0.00147	0.00151
3759418.68	0.00013	0.00017	0.00022	0.00029	0.00040	0.00056	0.00078	0.00086	0.00072
3759349.05	0.00013	0.00016	0.00021	0.00028	0.00037	0.00049	0.00054	0.00052	0.00045
3759279.42	0.00012	0.00015	0.00019	0.00025	0.00031	0.00038	0.00037	0.00034	0.00030
3759209.79	0.00011	0.00013	0.00017	0.00021	0.00025	0.00027	0.00026	0.00023	0.00022
3759140.16	0.00009	0.00012	0.00014	0.00017	0.00018	0.00019	0.00019	0.00017	0.00017
3759070.53	0.00008	0.00010	0.00011	0.00013	0.00014	0.00014	0.00014	0.00014	0.00014
3759000.90	0.00007	0.00008	0.00009	0.00010	0.00011	0.00011	0.00011	0.00011	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 ,
L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 , L0000827 ,
L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , L0000834 , L0000835 ,
L0000836 , L0000837 , L0000838 , L0000839 , L0000840 , L0000841 , L0000842 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	403273.69	403339.62	403405.55	403471.48	403537.41	403603.34	403669.27	403735.20	403801.13
3760393.50	0.00014	0.00014	0.00014	0.00013	0.00012	0.00011	0.00010	0.00009	0.00008
3760323.87	0.00018	0.00017	0.00017	0.00016	0.00014	0.00013	0.00012	0.00010	0.00009
3760254.24	0.00023	0.00022	0.00021	0.00019	0.00017	0.00015	0.00014	0.00012	0.00011
3760184.61	0.00030	0.00028	0.00026	0.00024	0.00021	0.00018	0.00016	0.00014	0.00012
3760114.98	0.00039	0.00036	0.00033	0.00029	0.00026	0.00022	0.00019	0.00016	0.00014

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 3760045.35 |       0.00053      0.00047      0.00042      0.00037      0.00031      0.00026      0.00022      0.00018      0.00015
 3759975.72 |       0.00082      0.00062      0.00054      0.00045      0.00038      0.00031      0.00025      0.00020      0.00016
 3759906.09 |       0.00104      0.00086      0.00070      0.00057      0.00046      0.00036      0.00027      0.00021      0.00016
 3759836.46 |       0.00117      0.00126      0.00094      0.00071      0.00052      0.00038      0.00028      0.00020      0.00015
 3759766.83 |       0.00145      0.00157      0.00136      0.00082      0.00054      0.00037      0.00026      0.00019      0.00014
 3759697.20 |       0.00174      0.00143      0.00175      0.00087      0.00052      0.00035      0.00025      0.00018      0.00013
 3759627.57 |       0.00204      0.00208      0.00171      0.00103      0.00051      0.00033      0.00023      0.00017      0.00013
 3759557.94 |       0.00182      0.00137      0.00116      0.00112      0.00061      0.00033      0.00022      0.00016      0.00012
 3759488.31 |       0.00118      0.00090      0.00079      0.00126      0.00075      0.00034      0.00021      0.00016      0.00012
 3759418.68 |       0.00062      0.00056      0.00052      0.00053      0.00048      0.00029      0.00020      0.00015      0.00012
 3759349.05 |       0.00040      0.00038      0.00036      0.00034      0.00030      0.00025      0.00019      0.00015      0.00012
 3759279.42 |       0.00028      0.00027      0.00026      0.00024      0.00022      0.00020      0.00017      0.00014      0.00011
 3759209.79 |       0.00021      0.00020      0.00020      0.00019      0.00017      0.00016      0.00015      0.00012      0.00010
 3759140.16 |       0.00016      0.00016      0.00016      0.00015      0.00014      0.00014      0.00013      0.00011      0.00009
 3759070.53 |       0.00014      0.00014      0.00014      0.00013      0.00012      0.00011      0.00010      0.00009      0.00008
 3759000.90 |       0.00011      0.00011      0.00010      0.00010      0.00010      0.00009      0.00008      0.00008      0.00007

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                                    ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2040 to 2053                                     ***        18:19:34
                                                                                                                          PAGE  29
*** 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       ,
                 L0000820    , L0000821    , L0000822    , L0000823    , L0000824    , L0000825    , L0000826    , L0000827    ,
                 L0000828    , L0000829    , L0000830    , L0000831    , L0000832    , L0000833    , L0000834    , L0000835    ,
                 L0000836    , L0000837    , L0000838    , L0000839    , L0000840    , L0000841    , L0000842    ,  . . .      ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |     403867.06    403932.99    403998.92
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3760393.50 |       0.00007      0.00007      0.00006
 3760323.87 |       0.00008      0.00007      0.00007
 3760254.24 |       0.00009      0.00008      0.00007
 3760184.61 |       0.00010      0.00009      0.00008
 3760114.98 |       0.00011      0.00009      0.00008
 3760045.35 |       0.00012      0.00010      0.00008
 3759975.72 |       0.00012      0.00010      0.00008
 3759906.09 |       0.00012      0.00010      0.00008
 3759836.46 |       0.00012      0.00009      0.00007
 3759766.83 |       0.00011      0.00009      0.00007
 3759697.20 |       0.00010      0.00008      0.00007
 3759627.57 |       0.00010      0.00008      0.00006
 3759557.94 |       0.00009      0.00008      0.00006
 3759488.31 |       0.00009      0.00007      0.00006
 3759418.68 |       0.00009      0.00007      0.00006
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 3759349.05 |       0.00009      0.00007      0.00006
 3759279.42 |       0.00009      0.00007      0.00006
 3759209.79 |       0.00009      0.00007      0.00006
 3759140.16 |       0.00008      0.00007      0.00006
 3759070.53 |       0.00007      0.00006      0.00005
 3759000.90 |       0.00006      0.00006      0.00005
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                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                              INCLUDING SOURCE(S):     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
              L0000820    , L0000821    , L0000822    , L0000823    , L0000824    , L0000825    , L0000826    , L0000827    ,
              L0000828    , L0000829    , L0000830    , L0000831    , L0000832    , L0000833    , L0000834    , L0000835    ,
              L0000836    , L0000837    , L0000838    , L0000839    , L0000840    , L0000841    , L0000842    ,  . . .      ,

                                    *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       403076.63    3759566.89        0.00091                     403074.61    3759594.66        0.00089
       403074.33    3759652.43        0.00085                     403036.23    3759545.23        0.00066
       403491.13    3759689.69        0.00073                     403558.25    3759512.77        0.00056
       403587.63    3759479.41        0.00039                     403471.13    3759691.31        0.00088
       403096.96    3760166.19        0.00039
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                                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS ***


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

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

ALL       1ST HIGHEST VALUE IS      0.00218 AT (  403207.76,  3759557.94,    66.70,    66.70,    0.00)  GC  UCART1
          2ND HIGHEST VALUE IS      0.00208 AT (  403339.62,  3759627.57,    68.10,    68.10,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS      0.00204 AT (  403273.69,  3759627.57,    67.70,    67.70,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS      0.00182 AT (  403273.69,  3759557.94,    66.40,    66.40,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS      0.00175 AT (  403405.55,  3759697.20,    72.10,    72.10,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS      0.00174 AT (  403273.69,  3759697.20,    68.00,    68.00,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS      0.00171 AT (  403405.55,  3759627.57,    70.40,    70.40,    0.00)  GC  UCART1
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         8TH HIGHEST VALUE IS       0.00160 AT (  403207.76,  3759627.57,    67.30,    67.30,    0.00)  GC  UCART1
         9TH HIGHEST VALUE IS       0.00157 AT (  403339.62,  3759766.83,    71.30,    71.30,    0.00)  GC  UCART1
        10TH HIGHEST VALUE IS       0.00152 AT (  403141.83,  3759557.94,    66.20,    66.20,    0.00)  GC  UCART1


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

*** AERMOD - VERSION 21112  ***   *** 19391 Whittier Blvd BP                                          ***        02/10/22
*** AERMET - VERSION  16216 ***   *** DPM Concentrations Years 2040 to 2053                           ***        18:19:34
                                                                                                               PAGE  32
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

*** Message Summary : AERMOD Model Execution ***

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

A Total of            0 Fatal Error Message(s)
A Total of            9 Warning Message(s)
A Total of         1277 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          152 Calm Hours Identified

A Total of         1125 Missing Hours Identified (  2.57 Percent)


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


   ********   WARNING MESSAGES   ********
SO W320     408        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     409        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     410        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     411        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
SO W320     412        PPARM: Input Parameter May Be Out-of-Range for Parameter            VS
ME W186     896       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     896       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:      15010101
MX W450   26305       CHKDAT: Record Out of Sequence in Meteorological File at:    2 year gap

   ***********************************
   *** 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)	2023 (gms/mile)	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)
South Coast AQMD	*Annual*	*LHDT2*	*DSL*	Aggregated	*0*	0.778842	0.777688	0.777509	0.777544	0.777539	0.77765	0.777228	0.776552	0.772631	0.770784	0.768303	0.765381
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	5	0.072381	0.065732	0.060612	0.056486	0.053235	0.050727	0.048784	0.047295	0.046041	0.04507	0.044345	0.043925
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	10	0.059607	0.054347	0.050289	0.04702	0.044449	0.042473	0.040952	0.039803	0.03887	0.03818	0.037707	0.037493
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	35	0.023739	0.02193	0.020552	0.019459	0.018621	0.017998	0.017541	0.017219	0.016983	0.016838	0.016776	0.01681
South Coast AQMD	*Annual*	*MHDT*	*DSL*	Aggregated	*0*	0.086748	0.07273	0.060303	0.049764	0.041162	0.034359	0.028849	0.024397	0.020752	0.018038	0.015804	0.014045
South Coast AQMD	Annual	MHDT	DSL	Aggregated	5	0.055457	0.047035	0.039388	0.032878	0.027462	0.023065	0.019496	0.016589	0.014187	0.012242	0.010647	0.009378
South Coast AQMD	Annual	MHDT	DSL	Aggregated	10	0.045219	0.038328	0.032074	0.026749	0.022318	0.018721	0.015799	0.013418	0.011449	0.009852	0.008541	0.007498
South Coast AQMD	Annual	MHDT	DSL	Aggregated	35	0.010371	0.008966	0.007687	0.006597	0.005684	0.004945	0.004336	0.003836	0.003412	0.003062	0.002766	0.002529
South Coast AQMD	*Annual*	*HHDT*	*DSL*	Aggregated	*0*	0.016309	0.015375	0.014634	0.013923	0.013343	0.012838	0.012276	0.011792	0.011375	0.011065	0.010815	0.010558
South Coast AQMD	Annual	HHDT	DSL	Aggregated	5	0.014741	0.014315	0.013927	0.013603	0.013294	0.013002	0.012669	0.012344	0.012015	0.011674	0.011385	0.011096
South Coast AQMD	Annual	HHDT	DSL	Aggregated	10	0.012582	0.012166	0.011786	0.011464	0.01116	0.010875	0.010558	0.01025	0.009941	0.009624	0.009354	0.009087
South Coast AQMD	Annual	HHDT	DSL	Aggregated	35	0.008564	0.008261	0.007966	0.00773	0.007515	0.00732	0.007119	0.006927	0.006736	0.006543	0.006372	0.006207

	14 yr 2026-2039 **5 mph**	**14 yr** 2026-2039 **10 mph**	**14 yr** 2026-2039 **35 mph**	**14 yr** 2026-2039 **0 mph (idling)**
LHDT2	0.04654	0.03945	0.01734	0.76899
MHDT	0.01431	0.01154	0.00340	0.02150
HHDT	0.01177	0.00969	0.00658	0.01135

	14 yr 2040-2053 **5 mph**	**14 yr** 2040-2053 **10 mph**	**14 yr** 2040-2053 **35 mph**	**14 yr** 2040-2053 **0 mph (idling)**
LHDT2	0.04099	0.03556	0.01660	0.76156
MHDT	0.00424	0.00328	0.00154	0.00743
HHDT	0.01012	0.00821	0.00565	0.00975

	2 yr 2024-2025 **5 mph**	**2 yr** 2024-2025 **10 mph**	**2 yr** 2024-2025 **35 mph**	**2 yr** 2024-2025 **0 mph (idling)**
LHDT2	0.06317	0.05232	0.02124	0.77760
MHDT	0.04321	0.03520	0.00833	0.06652
HHDT	0.01412	0.01198	0.00811	0.01500

	1 yr 2023 **5 mph**	**1 yr** 2023 **10 mph**	**1 yr** 2023 **35 mph**	**1 yr** 2023 **0 mph (idling)**
LHDT2	0.08144	0.05961	0.02374	0.77884
MHDT	0.06814	0.04522	0.01037	0.08675
HHDT	0.02111	0.01258	0.00856	0.01631

2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
0.761339	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
0.043383	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
0.037198	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
0.016819	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
0.012547	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
0.008311	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
0.006618	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
0.002319	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
0.010383	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
0.010891	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
0.008898	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
0.006082	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

APPENDIX D

CALEEMOD MODEL ANNUAL EMISSIONS PRINTOUTS AND EMFAC DATA

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

19391 Whittier Boulevard Business Park

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	294.80	1000sqft	6.63	294,800.00	0
Other Non-Asphalt Surfaces	3.12	Acre	3.12	135,907.20	0
Parking Lot	416.00	Space	3.74	166,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 13.49 acres w/ 294,800 square feet industrial bldg (288,800 square foot footprint), 416 space parking lot, & remainder (~3.12 acre) landscaping/harscape).

Construction Phase - Per project applicant, construction to begin 12-1-2022 with demo lasting 52 days, site prep 9 days, grading 42 days, construction 153 days, paving 42 days, and coating 94 days. TIA OY is 2023.

Demolition - Existing ~213,430 sf bldg and ~305,150 sf existing paving to be demolished (total demo = ~518,580).

Grading - Site anticipated to balance.

Vehicle Trips - TIA 3.37 trips/TSF. Percentages changed to 84.9% autos (CNW) & 15.1% trucks (C-W). Per SCAQMD C-W trip length changed to 40 miles.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site is ~0.86 miles SW of downtown area of Whittier & ~0.22 miles NW of bus stop at Pickering/Walnut.

Water Mitigation - 20% reduction indoor water use per CalGreen standards. Water efficient irrigation systems.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

Fleet Mix - Revised vehicle fleet mix per traffic study of 84.9% Autos, 1.2% 2-Axle Trucks, 1.1% 3-Axle Trucks and 12.8% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	NumDays	20.00	52.00
tblConstructionPhase	NumDays	30.00	42.00
tblConstructionPhase	NumDays	300.00	153.00
tblConstructionPhase	NumDays	20.00	94.00
tblConstructionPhase	NumDays	20.00	42.00
tblFleetMix	HHD	8.0120e-003	0.13
tblFleetMix	LDA	0.54	0.49
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.19	0.17
tblFleetMix	LHD1	0.02	9.4980e-003
tblFleetMix	LHD2	6.0830e-003	2.5020e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.13	0.11
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblLandUse	LotAcreage	6.77	6.63
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TTP	13.00	84.90
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	15.10

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	ST_TR	2.54	3.37
tblVehicleTrips	SU_TR	1.24	3.70

2.0 Emissions Summary

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0464	0.5208	0.3440	9.3000e-004	0.2077	0.0216	0.2293	0.0649	0.0200	0.0849	0.0000	85.4910	85.4910	0.0171	4.9500e-003	87.3932
2023	1.7495	2.8753	3.4238	8.5000e-003	0.6462	0.1160	0.7621	0.1814	0.1083	0.2897	0.0000	771.7181	771.7181	0.1198	0.0310	783.9602
Maximum	**1.7495**	**2.8753**	**3.4238**	**8.5000e-003**	**0.6462**	**0.1160**	**0.7621**	**0.1814**	**0.1083**	**0.2897**	**0.0000**	**771.7181**	**771.7181**	**0.1198**	**0.0310**	**783.9602**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0464	0.5208	0.3440	9.3000e-004	0.0879	0.0216	0.1095	0.0272	0.0200	0.0472	0.0000	85.4910	85.4910	0.0171	4.9500e-003	87.3932
2023	1.7495	2.8753	3.4238	8.5000e-003	0.4384	0.1160	0.5544	0.1210	0.1083	0.2293	0.0000	771.7177	771.7177	0.1198	0.0310	783.9597
Maximum	**1.7495**	**2.8753**	**3.4238**	**8.5000e-003**	**0.4384**	**0.1160**	**0.5544**	**0.1210**	**0.1083**	**0.2293**	**0.0000**	**771.7177**	**771.7177**	**0.1198**	**0.0310**	**783.9597**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**38.36**	**0.00**	**33.04**	**39.84**	**0.00**	**26.19**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**12-1-2022**	**2-28-2023**	0.9139	0.9139
2	**3-1-2023**	**5-31-2023**	1.0256	1.0256
3	**6-1-2023**	**8-31-2023**	0.9684	0.9684
4	**9-1-2023**	**9-30-2023**	0.5671	0.5671
		Highest	1.0256	1.0256

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2265	8.0000e-005	9.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0177	0.0177	5.0000e-005	0.0000	0.0189
Energy	0.0164	0.1490	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	826.0403	826.0403	0.0591	9.7700e-003	830.4288
Mobile	0.5376	2.2617	5.8937	0.0181	1.3916	0.0172	1.4088	0.3719	0.0162	0.3881	0.0000	1,724.6315	1,724.6315	0.0983	0.1498	1,771.7255
Waste						0.0000	0.0000		0.0000	0.0000	74.2034	0.0000	74.2034	4.3853	0.0000	183.8357
Water						0.0000	0.0000		0.0000	0.0000	21.6280	157.4251	179.0530	2.2347	0.0541	251.0310
Total	**1.7805**	**2.4108**	**6.0280**	**0.0189**	**1.3916**	**0.0285**	**1.4201**	**0.3719**	**0.0276**	**0.3995**	**95.8313**	**2,708.1145**	**2,803.9459**	**6.7775**	**0.2136**	**3,037.0398**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2265	8.0000e-005	9.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0177	0.0177	5.0000e-005	0.0000	0.0189
Energy	0.0164	0.1490	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	826.0403	826.0403	0.0591	9.7700e-003	830.4288
Mobile	0.4415	1.6893	4.3648	0.0124	0.9381	0.0119	0.9500	0.2507	0.0112	0.2619	0.0000	1,186.2057	1,186.2057	0.0727	0.1064	1,219.7421
Waste						0.0000	0.0000		0.0000	0.0000	18.5508	0.0000	18.5508	1.0963	0.0000	45.9589
Water						0.0000	0.0000		0.0000	0.0000	17.3024	125.9400	143.2424	1.7878	0.0433	200.8248
Total	**1.6843**	**1.8384**	**4.4991**	**0.0133**	**0.9381**	**0.0232**	**0.9613**	**0.2507**	**0.0225**	**0.2732**	**35.8532**	**2,138.2037**	**2,174.0569**	**3.0160**	**0.1595**	**2,296.9734**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**5.40**	**23.74**	**25.36**	**29.78**	**32.59**	**18.71**	**32.31**	**32.59**	**18.29**	**31.60**	**62.59**	**21.04**	**22.46**	**55.50**	**25.35**	**24.37**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	2/11/2022	2/23/2022	5	9	
2	Demolition	Demolition	12/1/2022	2/10/2023	5	52	
3	Grading	Grading	2/24/2023	4/24/2023	5	42	

4	Building Construction	Building Construction	4/25/2023	11/23/2023	5	153	
5	Architectural Coating	Architectural Coating	8/8/2023	12/15/2023	5	94	
6	Paving	Paving	10/19/2023	12/15/2023	5	42	

Acres of Grading (Site Preparation Phase): 13.5

Acres of Grading (Grading Phase): 126

Acres of Paving: 6.86

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 442,200; Non-Residential Outdoor: 147,400; Striped Parking Area: 18,138 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

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Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,359.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	251.00	98.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0885	0.0000	0.0885	0.0455	0.0000	0.0455	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0143	0.1489	0.0886	1.7000e-004		7.2600e-003	7.2600e-003		6.6800e-003	6.6800e-003	0.0000	15.0477	15.0477	4.8700e-003	0.0000	15.1694
Total	**0.0143**	**0.1489**	**0.0886**	**1.7000e-004**	**0.0885**	**7.2600e-003**	**0.0957**	**0.0455**	**6.6800e-003**	**0.0521**	**0.0000**	**15.0477**	**15.0477**	**4.8700e-003**	**0.0000**	**15.1694**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.3000e-004	3.0100e-003	1.0000e-005	8.9000e-004	1.0000e-005	8.9000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.7347	0.7347	2.0000e-005	2.0000e-005	0.7412
Total	**2.8000e-004**	**2.3000e-004**	**3.0100e-003**	**1.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.4000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.7347**	**0.7347**	**2.0000e-005**	**2.0000e-005**	**0.7412**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0345	0.0000	0.0345	0.0177	0.0000	0.0177	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0143	0.1489	0.0886	1.7000e-004		7.2600e-003	7.2600e-003		6.6800e-003	6.6800e-003	0.0000	15.0477	15.0477	4.8700e-003	0.0000	15.1694
Total	**0.0143**	**0.1489**	**0.0886**	**1.7000e-004**	**0.0345**	**7.2600e-003**	**0.0418**	**0.0177**	**6.6800e-003**	**0.0244**	**0.0000**	**15.0477**	**15.0477**	**4.8700e-003**	**0.0000**	**15.1694**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.3000e-004	3.0100e-003	1.0000e-005	8.9000e-004	1.0000e-005	8.9000e-004	2.4000e-004	1.0000e-005	2.4000e-004	0.0000	0.7347	0.7347	2.0000e-005	2.0000e-005	0.7412
Total	**2.8000e-004**	**2.3000e-004**	**3.0100e-003**	**1.0000e-005**	**8.9000e-004**	**1.0000e-005**	**8.9000e-004**	**2.4000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.7347**	**0.7347**	**2.0000e-005**	**2.0000e-005**	**0.7412**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1080	0.0000	0.1080	0.0164	0.0000	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0290	0.2829	0.2265	4.3000e-004		0.0137	0.0137		0.0127	0.0127	0.0000	37.3893	37.3893	0.0105	0.0000	37.6518
Total	**0.0290**	**0.2829**	**0.2265**	**4.3000e-004**	**0.1080**	**0.0137**	**0.1217**	**0.0164**	**0.0127**	**0.0291**	**0.0000**	**37.3893**	**37.3893**	**0.0105**	**0.0000**	**37.6518**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-003	0.0883	0.0197	3.1000e-004	8.5900e-003	6.2000e-004	9.2100e-003	2.3600e-003	6.0000e-004	2.9500e-003	0.0000	30.8227	30.8227	1.6400e-003	4.8900e-003	32.3210
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.7000e-004	6.1300e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4967	1.4967	4.0000e-005	4.0000e-005	1.5098
Total	**2.8700e-003**	**0.0887**	**0.0258**	**3.3000e-004**	**0.0104**	**6.3000e-004**	**0.0110**	**2.8400e-003**	**6.1000e-004**	**3.4400e-003**	**0.0000**	**32.3193**	**32.3193**	**1.6800e-003**	**4.9300e-003**	**33.8308**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0421	0.0000	0.0421	6.3800e-003	0.0000	6.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0290	0.2829	0.2265	4.3000e-004		0.0137	0.0137		0.0127	0.0127	0.0000	37.3892	37.3892	0.0105	0.0000	37.6518
Total	**0.0290**	**0.2829**	**0.2265**	**4.3000e-004**	**0.0421**	**0.0137**	**0.0558**	**6.3800e-003**	**0.0127**	**0.0191**	**0.0000**	**37.3892**	**37.3892**	**0.0105**	**0.0000**	**37.6518**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-003	0.0883	0.0197	3.1000e-004	8.5900e-003	6.2000e-004	9.2100e-003	2.3600e-003	6.0000e-004	2.9500e-003	0.0000	30.8227	30.8227	1.6400e-003	4.8900e-003	32.3210
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.7000e-004	6.1300e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4967	1.4967	4.0000e-005	4.0000e-005	1.5098
Total	**2.8700e-003**	**0.0887**	**0.0258**	**3.3000e-004**	**0.0104**	**6.3000e-004**	**0.0110**	**2.8400e-003**	**6.1000e-004**	**3.4400e-003**	**0.0000**	**32.3193**	**32.3193**	**1.6800e-003**	**4.9300e-003**	**33.8308**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1473	0.0000	0.1473	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0340	0.3223	0.2947	5.8000e-004		0.0150	0.0150		0.0139	0.0139	0.0000	50.9881	50.9881	0.0143	0.0000	51.3451
Total	**0.0340**	**0.3223**	**0.2947**	**5.8000e-004**	**0.1473**	**0.0150**	**0.1622**	**0.0223**	**0.0139**	**0.0362**	**0.0000**	**50.9881**	**50.9881**	**0.0143**	**0.0000**	**51.3451**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0936	0.0238	4.0000e-004	0.0117	5.6000e-004	0.0123	3.2200e-003	5.4000e-004	3.7500e-003	0.0000	39.6904	39.6904	2.1800e-003	6.3000e-003	41.6233
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037
Total	**2.1500e-003**	**0.0941**	**0.0315**	**4.2000e-004**	**0.0142**	**5.8000e-004**	**0.0148**	**3.8700e-003**	**5.5000e-004**	**4.4200e-003**	**0.0000**	**41.6775**	**41.6775**	**2.2300e-003**	**6.3500e-003**	**43.6270**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0574	0.0000	0.0574	8.7000e-003	0.0000	8.7000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0340	0.3223	0.2947	5.8000e-004		0.0150	0.0150		0.0139	0.0139	0.0000	50.9880	50.9880	0.0143	0.0000	51.3450
Total	**0.0340**	**0.3223**	**0.2947**	**5.8000e-004**	**0.0574**	**0.0150**	**0.0724**	**8.7000e-003**	**0.0139**	**0.0226**	**0.0000**	**50.9880**	**50.9880**	**0.0143**	**0.0000**	**51.3450**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0936	0.0238	4.0000e-004	0.0117	5.6000e-004	0.0123	3.2200e-003	5.4000e-004	3.7500e-003	0.0000	39.6904	39.6904	2.1800e-003	6.3000e-003	41.6233
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037
Total	**2.1500e-003**	**0.0941**	**0.0315**	**4.2000e-004**	**0.0142**	**5.8000e-004**	**0.0148**	**3.8700e-003**	**5.5000e-004**	**4.4200e-003**	**0.0000**	**41.6775**	**41.6775**	**2.2300e-003**	**6.3500e-003**	**43.6270**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1933	0.0000	0.1933	0.0767	0.0000	0.0767	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0698	0.7248	0.5891	1.3000e-003		0.0299	0.0299		0.0275	0.0275	0.0000	114.5239	114.5239	0.0370	0.0000	115.4499
Total	**0.0698**	**0.7248**	**0.5891**	**1.3000e-003**	**0.1933**	**0.0299**	**0.2232**	**0.0767**	**0.0275**	**0.1043**	**0.0000**	**114.5239**	**114.5239**	**0.0370**	**0.0000**	**115.4499**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	1.0600e-003	0.0144	4.0000e-005	4.6000e-003	3.0000e-005	4.6300e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.7093	3.7093	1.0000e-004	1.0000e-004	3.7402
Total	**1.3300e-003**	**1.0600e-003**	**0.0144**	**4.0000e-005**	**4.6000e-003**	**3.0000e-005**	**4.6300e-003**	**1.2200e-003**	**3.0000e-005**	**1.2500e-003**	**0.0000**	**3.7093**	**3.7093**	**1.0000e-004**	**1.0000e-004**	**3.7402**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0754	0.0000	0.0754	0.0299	0.0000	0.0299	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0698	0.7248	0.5891	1.3000e-003		0.0299	0.0299		0.0275	0.0275	0.0000	114.5238	114.5238	0.0370	0.0000	115.4498
Total	**0.0698**	**0.7248**	**0.5891**	**1.3000e-003**	**0.0754**	**0.0299**	**0.1053**	**0.0299**	**0.0275**	**0.0574**	**0.0000**	**114.5238**	**114.5238**	**0.0370**	**0.0000**	**115.4498**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	1.0600e-003	0.0144	4.0000e-005	4.6000e-003	3.0000e-005	4.6300e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.7093	3.7093	1.0000e-004	1.0000e-004	3.7402
Total	**1.3300e-003**	**1.0600e-003**	**0.0144**	**4.0000e-005**	**4.6000e-003**	**3.0000e-005**	**4.6300e-003**	**1.2200e-003**	**3.0000e-005**	**1.2500e-003**	**0.0000**	**3.7093**	**3.7093**	**1.0000e-004**	**1.0000e-004**	**3.7402**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1203	1.1004	1.2427	2.0600e-003		0.0535	0.0535		0.0504	0.0504	0.0000	177.3306	177.3306	0.0422	0.0000	178.3852
Total	**0.1203**	**1.1004**	**1.2427**	**2.0600e-003**		**0.0535**	**0.0535**		**0.0504**	**0.0504**	**0.0000**	**177.3306**	**177.3306**	**0.0422**	**0.0000**	**178.3852**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4700e-003	0.3021	0.1131	1.4000e-003	0.0473	1.4500e-003	0.0487	0.0136	1.3900e-003	0.0150	0.0000	136.3121	136.3121	4.5600e-003	0.0196	142.2720
Worker	0.0610	0.0484	0.6560	1.8300e-003	0.2104	1.3000e-003	0.2117	0.0559	1.1900e-003	0.0571	0.0000	169.5831	169.5831	4.4500e-003	4.3600e-003	170.9937
Total	**0.0694**	**0.3505**	**0.7691**	**3.2300e-003**	**0.2577**	**2.7500e-003**	**0.2604**	**0.0695**	**2.5800e-003**	**0.0721**	**0.0000**	**305.8953**	**305.8953**	**9.0100e-003**	**0.0240**	**313.2657**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1203	1.1004	1.2427	2.0600e-003		0.0535	0.0535		0.0504	0.0504	0.0000	177.3304	177.3304	0.0422	0.0000	178.3850
Total	**0.1203**	**1.1004**	**1.2427**	**2.0600e-003**		**0.0535**	**0.0535**		**0.0504**	**0.0504**	**0.0000**	**177.3304**	**177.3304**	**0.0422**	**0.0000**	**178.3850**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4700e-003	0.3021	0.1131	1.4000e-003	0.0473	1.4500e-003	0.0487	0.0136	1.3900e-003	0.0150	0.0000	136.3121	136.3121	4.5600e-003	0.0196	142.2720
Worker	0.0610	0.0484	0.6560	1.8300e-003	0.2104	1.3000e-003	0.2117	0.0559	1.1900e-003	0.0571	0.0000	169.5831	169.5831	4.4500e-003	4.3600e-003	170.9937
Total	**0.0694**	**0.3505**	**0.7691**	**3.2300e-003**	**0.2577**	**2.7500e-003**	**0.2604**	**0.0695**	**2.5800e-003**	**0.0721**	**0.0000**	**305.8953**	**305.8953**	**9.0100e-003**	**0.0240**	**313.2657**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0100e-003	0.0612	0.0851	1.4000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003	0.0000	12.0003	12.0003	7.2000e-004	0.0000	12.0182
Total	**1.4174**	**0.0612**	**0.0851**	**1.4000e-004**		**3.3300e-003**	**3.3300e-003**		**3.3300e-003**	**3.3300e-003**	**0.0000**	**12.0003**	**12.0003**	**7.2000e-004**	**0.0000**	**12.0182**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4600e-003	5.9200e-003	0.0803	2.2000e-004	0.0258	1.6000e-004	0.0259	6.8400e-003	1.5000e-004	6.9900e-003	0.0000	20.7547	20.7547	5.5000e-004	5.3000e-004	20.9273
Total	**7.4600e-003**	**5.9200e-003**	**0.0803**	**2.2000e-004**	**0.0258**	**1.6000e-004**	**0.0259**	**6.8400e-003**	**1.5000e-004**	**6.9900e-003**	**0.0000**	**20.7547**	**20.7547**	**5.5000e-004**	**5.3000e-004**	**20.9273**

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3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4084					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0100e-003	0.0612	0.0851	1.4000e-004		3.3300e-003	3.3300e-003		3.3300e-003	3.3300e-003	0.0000	12.0003	12.0003	7.2000e-004	0.0000	12.0182
Total	**1.4174**	**0.0612**	**0.0851**	**1.4000e-004**		**3.3300e-003**	**3.3300e-003**		**3.3300e-003**	**3.3300e-003**	**0.0000**	**12.0003**	**12.0003**	**7.2000e-004**	**0.0000**	**12.0182**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4600e-003	5.9200e-003	0.0803	2.2000e-004	0.0258	1.6000e-004	0.0259	6.8400e-003	1.5000e-004	6.9900e-003	0.0000	20.7547	20.7547	5.5000e-004	5.3000e-004	20.9273
Total	**7.4600e-003**	**5.9200e-003**	**0.0803**	**2.2000e-004**	**0.0258**	**1.6000e-004**	**0.0259**	**6.8400e-003**	**1.5000e-004**	**6.9900e-003**	**0.0000**	**20.7547**	**20.7547**	**5.5000e-004**	**5.3000e-004**	**20.9273**

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3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0217	0.2140	0.3063	4.8000e-004		0.0107	0.0107		9.8600e-003	9.8600e-003	0.0000	42.0564	42.0564	0.0136	0.0000	42.3965
Paving	4.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0266**	**0.2140**	**0.3063**	**4.8000e-004**		**0.0107**	**0.0107**		**9.8600e-003**	**9.8600e-003**	**0.0000**	**42.0564**	**42.0564**	**0.0136**	**0.0000**	**42.3965**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.9000e-004	0.0108	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7820	2.7820	7.0000e-005	7.0000e-005	2.8052
Total	**1.0000e-003**	**7.9000e-004**	**0.0108**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4700e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.7820**	**2.7820**	**7.0000e-005**	**7.0000e-005**	**2.8052**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0217	0.2140	0.3063	4.8000e-004		0.0107	0.0107		9.8600e-003	9.8600e-003	0.0000	42.0564	42.0564	0.0136	0.0000	42.3964
Paving	4.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0266**	**0.2140**	**0.3063**	**4.8000e-004**		**0.0107**	**0.0107**		**9.8600e-003**	**9.8600e-003**	**0.0000**	**42.0564**	**42.0564**	**0.0136**	**0.0000**	**42.3964**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.9000e-004	0.0108	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7820	2.7820	7.0000e-005	7.0000e-005	2.8052
Total	**1.0000e-003**	**7.9000e-004**	**0.0108**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4700e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.7820**	**2.7820**	**7.0000e-005**	**7.0000e-005**	**2.8052**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Improve Destination Accessibility

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4415	1.6893	4.3648	0.0124	0.9381	0.0119	0.9500	0.2507	0.0112	0.2619	0.0000	1,186.2057	1,186.2057	0.0727	0.1064	1,219.7421
Unmitigated	0.5376	2.2617	5.8937	0.0181	1.3916	0.0172	1.4088	0.3719	0.0162	0.3881	0.0000	1,724.6315	1,724.6315	0.0983	0.1498	1,771.7255

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	993.48	993.48	1090.76	3,654,615	2,463,624
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	993.48	993.48	1,090.76	3,654,615	2,463,624

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Industrial Park	40.00	8.40	6.90	15.10	0.00	84.90	79	19	2
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.488544	0.056356	0.168124	0.114100	0.009498	0.002502	0.011000	0.128000	0.000000	0.000000	0.021876	0.000000	0.000000
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	663.8469	663.8469	0.0560	6.7900e-003	667.2716
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	663.8469	663.8469	0.0560	6.7900e-003	667.2716
NaturalGas Mitigated	0.0164	0.1490	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	162.1933	162.1933	3.1100e-003	2.9700e-003	163.1572
NaturalGas Unmitigated	0.0164	0.1490	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	162.1933	162.1933	3.1100e-003	2.9700e-003	163.1572

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	3.03939e+006	0.0164	0.1490	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	162.1933	162.1933	3.1100e-003	2.9700e-003	163.1572
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0164**	**0.1490**	**0.1252**	**8.9000e-004**		**0.0113**	**0.0113**		**0.0113**	**0.0113**	**0.0000**	**162.1933**	**162.1933**	**3.1100e-003**	**2.9700e-003**	**163.1572**

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	3.03939e+006	0.0164	0.1490	0.1252	8.9000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	162.1933	162.1933	3.1100e-003	2.9700e-003	163.1572
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0164**	**0.1490**	**0.1252**	**8.9000e-004**		**0.0113**	**0.0113**		**0.0113**	**0.0113**	**0.0000**	**162.1933**	**162.1933**	**3.1100e-003**	**2.9700e-003**	**163.1572**

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	3.685e+006	653.5183	0.0552	6.6900e-003	656.8897
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	58240	10.3286	8.7000e-004	1.1000e-004	10.3819
Total		**663.8469**	**0.0560**	**6.8000e-003**	**667.2716**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	3.685e+006	653.5183	0.0552	6.6900e-003	656.8897
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	58240	10.3286	8.7000e-004	1.1000e-004	10.3819
Total		**663.8469**	**0.0560**	**6.8000e-003**	**667.2716**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2265	8.0000e-005	9.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0177	0.0177	5.0000e-005	0.0000	0.0189
Unmitigated	1.2265	8.0000e-005	9.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0177	0.0177	5.0000e-005	0.0000	0.0189

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0848					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.4000e-004	8.0000e-005	9.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0177	0.0177	5.0000e-005	0.0000	0.0189
Total	**1.2265**	**8.0000e-005**	**9.1100e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0177**	**0.0177**	**5.0000e-005**	**0.0000**	**0.0189**

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0848					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.4000e-004	8.0000e-005	9.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0177	0.0177	5.0000e-005	0.0000	0.0189
Total	**1.2265**	**8.0000e-005**	**9.1100e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0177**	**0.0177**	**5.0000e-005**	**0.0000**	**0.0189**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	143.2424	1.7878	0.0433	200.8248
Unmitigated	179.0530	2.2347	0.0541	251.0310

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	68.1725 / 0	179.0530	2.2347	0.0541	251.0310
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**179.0530**	**2.2347**	**0.0541**	**251.0310**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	54.538 / 0	143.2424	1.7878	0.0433	200.8248
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**143.2424**	**1.7878**	**0.0433**	**200.8248**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.5508	1.0963	0.0000	45.9589
Unmitigated	74.2034	4.3853	0.0000	183.8357

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	365.55	74.2034	4.3853	0.0000	183.8357
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**74.2034**	**4.3853**	**0.0000**	**183.8357**

19391 Whittier Boulevard Business Park - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	91.3875	18.5508	1.0963	0.0000	45.9589
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**18.5508**	**1.0963**	**0.0000**	**45.9589**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Source: EMFAC2021 (v1.0.1) Emissions Inventory
Region Type: Air Basin
Region: South Coast
Calendar Year: 2022
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	2022	HHDT	Aggregate	Aggregate	Gasoline	93.77521787	1876.254559	0	1.271766939	1271.766939	1998484.407	4872.85011	11739264.89	**5.87**	**HHDT**
South Coast	2022	HHDT	Aggregate	Aggregate	Diesel	86344.61493	1308488.279	0	1883.165573	1883165.573		11080949.98			
South Coast	2022	HHDT	Aggregate	Aggregate	Natural Gas	9530.013799	64445.55712	0	114.0470669	114047.0669		653442.0558			
South Coast	2022	LDA	Aggregate	Aggregate	Gasoline	5432984.929	25333114.49	0	7742.158581	7742158.581	7863292.337	217937990	233491817.2	**29.69**	**LDA**
South Coast	2022	LDA	Aggregate	Aggregate	Diesel	16596.66266	70061.62945	0	12.98213336	12982.13336		525055.9524			
South Coast	2022	LDA	Aggregate	Aggregate	Electricity	204269.3588	1027049.78	3533212.262	0	0		9151442.882			
South Coast	2022	LDA	Aggregate	Aggregate	Plug-in Hybrid	123066.1719	508878.6208	856005.7326	108.1516236	108151.6236		5877328.413			
South Coast	2022	LDT1	Aggregate	Aggregate	Gasoline	508118.9525	2234897.36	0	772.6742907	772674.2907	773091.3918	18186231.22	18233327.62	**23.58**	**LDT1**
South Coast	2022	LDT1	Aggregate	Aggregate	Diesel	219.3543012	650.4955004	0	0.181276274	181.2762739		4217.627426			
South Coast	2022	LDT1	Aggregate	Aggregate	Electricity	860.4090968	3929.280026	11231.02673	0	0		29089.70421			
South Coast	2022	LDT1	Aggregate	Aggregate	Plug-in Hybrid	262.0628223	1083.62977	2172.476691	0.2358249	235.8249004		13789.07098			
South Coast	2022	LDT2	Aggregate	Aggregate	Gasoline	2380478.996	11180656.67	0	4304.779926	4304779.926	4326812.467	97358601.17	97676672.01	**22.57**	**LDT2**
South Coast	2022	LDT2	Aggregate	Aggregate	Diesel	7265.359325	35160.20236	0	10.4792726	10479.2726		318070.8386			
South Coast	2022	LDT2	Aggregate	Aggregate	Electricity	6619.441536	34120.34272	95194.32476	0	0		246564.7012			
South Coast	2022	LDT2	Aggregate	Aggregate	Plug-in Hybrid	12770.05734	52804.18709	99473.18925	11.55326881	11553.26881		651602.4969			
South Coast	2022	LHDT1	Aggregate	Aggregate	Gasoline	200207.0512	2982786.755	0	596.2532604	596253.2604	791494.8201	7670055.089	11609061.87	**14.67**	**LHDT1**
South Coast	2022	LHDT1	Aggregate	Aggregate	Diesel	95425.65716	1200334.722	0	195.2415597	195241.5597		3939006.782			
South Coast	2022	LHDT2	Aggregate	Aggregate	Gasoline	31310.70271	466482.8175	0	100.8426005	100842.6005	201968.3332	1148331.498	2852151.512	**14.12**	**LHDT2**
South Coast	2022	LHDT2	Aggregate	Aggregate	Diesel	41221.34914	518512.7157	0	101.1257327	101125.7327		1703820.013			
South Coast	2022	MCY	Aggregate	Aggregate	Gasoline	232866.3127	465732.6253	0	36.03993715	36039.93715	36039.93715	1478622.183	1478622.183	**41.03**	**MCY**
South Coast	2022	MDV	Aggregate	Aggregate	Gasoline	1546490.389	7140651.876	0	3192.182291	3192182.291	3233168.731	58964077.19	60366385.9	**18.67**	**MDV**
South Coast	2022	MDV	Aggregate	Aggregate	Diesel	19342.84345	91596.79576	0	34.03297982	34032.97982		777527.7955			
South Coast	2022	MDV	Aggregate	Aggregate	Electricity	6696.74782	34502.63749	96159.45426	0	0		249064.5022			
South Coast	2022	MDV	Aggregate	Aggregate	Plug-in Hybrid	8117.761373	33566.94328	55475.93063	6.953460429	6953.460429		375716.4182			
South Coast	2022	MH	Aggregate	Aggregate	Gasoline	31850.36852	3186.310866	0	60.85222666	60852.22666	71928.89964	295792.8678	407742.3745	**5.67**	**MH**
South Coast	2022	MH	Aggregate	Aggregate	Diesel	11356.53565	1135.653565	0	11.07667298	11076.67298		111949.5066			
South Coast	2022	MHDT	Aggregate	Aggregate	Gasoline	26007.04178	520348.8919	0	274.1467882	274146.7882	819392.7308	1387695.111	6218651.542	**7.59**	**MHDT**
South Coast	2022	MHDT	Aggregate	Aggregate	Diesel	111240.7041	1363402.45	0	537.3888811	537388.8811		4766318.794			
South Coast	2022	MHDT	Aggregate	Aggregate	Natural Gas	1338.762023	12270.86005	0	7.857061417	7857.061417		64637.63673			
South Coast	2022	OBUS	Aggregate	Aggregate	Gasoline	5619.001977	112424.9916	0	46.10429672	46104.29672	82591.31041	229489.8627	490521.1159	**5.94**	**OBUS**
South Coast	2022	OBUS	Aggregate	Aggregate	Diesel	2896.768075	36743.40436	0	32.79511564	32795.11564		229036.0369			
South Coast	2022	OBUS	Aggregate	Aggregate	Natural Gas	537.7361163	4785.851435	0	3.691898056	3691.898056		31995.21632			
South Coast	2022	SBUS	Aggregate	Aggregate	Gasoline	2656.068282	10624.27313	0	13.13398403	13133.98403	40315.41184	115961.1562	260029.2373	**6.45**	**SBUS**
South Coast	2022	SBUS	Aggregate	Aggregate	Diesel	3463.174133	50146.76145	0	9.812107071	9812.107071		71631.6642			
South Coast	2022	SBUS	Aggregate	Aggregate	Natural Gas	2857.078854	41370.50181	0	17.36932074	17369.32074		72436.41685			
South Coast	2022	UBUS	Aggregate	Aggregate	Gasoline	892.5609011	3570.243605	0	14.15154342	14151.54342	205291.0561	96764.45551	693436.26	**3.38**	**UBUS**
South Coast	2022	UBUS	Aggregate	Aggregate	Diesel	15.79905129	63.19620517	0	0.277029151	277.0291511		1863.133553			
South Coast	2022	UBUS	Aggregate	Aggregate	Electricity	58.06621632	232.2648653	5333.126445	0	0		2542.871299			
South Coast	2022	UBUS	Aggregate	Aggregate	Natural Gas	4946.181814	19784.72726	0	190.8624835	190862.4835		592265.7996			

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	1902570.073	4463.059823	11350616.67	**5.97**	**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	7680508.917	635905.4264	228542169.3	**29.76**	**LDA**
South Coast	2023	LDA	Aggregate	Aggregate	Gasoline	5370115.979	25014254.84	0	7560.140191	7560140.191		216250190.4			
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	870253.2499	6496196.814	24547955.06	**28.21**	**LDT1**
South Coast	2023	LDT1	Aggregate	Aggregate	Gasoline	499113.9009	2195668.394	0	753.4930394	753493.0394		18009866.74			
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	4351441.574	24314.99018	100316975.8	**23.05**	**LDT2**
South Coast	2023	LDT2	Aggregate	Aggregate	Gasoline	2429950.117	11422828.59	0	4340.074795	4340074.795		100292660.9			
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	604831.9262	867992.1123	8688662.767	**14.37**	**LHDT1**
South Coast	2023	LHDT1	Aggregate	Aggregate	Gasoline	200398.3929	2985637.46	0	589.944376	589944.376		7820670.654			
South Coast	2023	LHDT1	Aggregate	Aggregate	Diesel	99896.36028	1256570.543	0	206.0356758	206035.6758	305180.3742	4194656.56	5351327.632	**17.53**	**LHDT2**
South Coast	2023	LHDT2	Aggregate	Aggregate	Gasoline	31213.47663	465034.2937	0	99.14469838	99144.69838		1156671.072			
South Coast	2023	LHDT2	Aggregate	Aggregate	Diesel	43691.53059	549584.4908	0	107.1632097	107163.2097	107163.2097	1828609.129	1828609.129	**17.06**	**MCY**
South Coast	2023	MCY	Aggregate	Aggregate	Gasoline	237586.076	475172.1521	0	36.88140998	36881.40998	3258846.142	1522726.619	62822547.87	**19.28**	**MDV**
South Coast	2023	MDV	Aggregate	Aggregate	Gasoline	1559902.035	7210563.701	0	3188.051046	3188051.046		60070040.07			
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	67468.7074	464374.4805	752062.2021	**11.15**	**MH**
South Coast	2023	MH	Aggregate	Aggregate	Gasoline	30468.55432	3048.074174	0	59.14587153	59145.87153		287687.7216			
South Coast	2023	MH	Aggregate	Aggregate	Diesel	11533.11741	1153.311741	0	11.30112611	11301.12611	819648.6117	114141.8155	6302753.398	**7.69**	**MHDT**
South Coast	2023	MHDT	Aggregate	Aggregate	Gasoline	25436.77287	508938.9517	0	266.1846594	266184.6594		1361855.942			
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	52048.54694	1295.841104	289973.7428	**5.57**	**OBUS**
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		220170.8028			
South Coast	2023	OBUS	Aggregate	Aggregate	Diesel	2949.128306	37294.91051	0	33.32983706	33329.83706	50038.16004	233227.1381	381057.5339	**7.62**	**SBUS**
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		119164.9071			
South Coast	2023	SBUS	Aggregate	Aggregate	Diesel	3377.128927	48900.82686	0	9.464602039	9464.602039	41441.52119	69271.73995	241028.6401	**5.82**	**UBUS**
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		96960.55907			
South Coast	2023	UBUS	Aggregate	Aggregate	Diesel	14.61165815	58.44663261	0	0.262644403			1749.021883			
South Coast	2023	UBUS	Aggregate	Aggregate	Electricity	58.03212573	232.1285029	5326.224873	0			2539.586791			
South Coast	2023	UBUS	Aggregate	Aggregate	Natural Gas	4957.576963	19830.30785	0	190.2775974			593592.4153			



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