Appendix A - Air Quality, Global Climate Change, Health Risk Assessment, Global Climate Change, and Energy Impact Analysis

TERRACINA AT REDLANDS (TTM 20320) AIR QUALITY, GLOBAL CLIMATE CHANGE, HRA, AND ENERGY IMPACT ANALYSIS

City of Redlands

August 16, 2021

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

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City of Redlands

August 16, 2021

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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 Terracina at Redlands 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 the cancer risk from freeway-related DPM emissions would exceed the SCAQMD MICR threshold of 10 in a million at proposed residential uses within 950 feet of the I-10 freeway. However, with incorporation of mitigation measure 1 (see Section 6 of this report), which requires the installation of MERV 13 filtration within the affected homes, the cancer risk from freeway-related DPM concentrations would be reduced to less than significant levels at affected receptor locations. Therefore, with mitigation 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 either the SCAQMD draft screening threshold of 3,000 MTCO2e per year for all land uses or the City of Redlands CAP GHG emissions threshold of 6.0 MTCOe per capita per year.

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 City of Redlands CAP; 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 Terracina at Redlands 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 residential 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 Redlands 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 approximately 64.56-acre project site is located north of Reservoir Road adjacent to Wabash Avenue in the City of Redlands. The project site is currently vacant. A vicinity map showing the project location is provided on Figure 1.

PROJECT DESCRIPTION

The proposed project involves construction of 67 single-family detached residential dwelling units. The proposed project is anticipated to be fully operational by Year 2025. Figure 2 illustrates the proposed site plan.

PHASING AND TIMING

The proposed project is anticipated to be operational in 2025. The project is anticipated to be built in two phases; however, in order to be conservative and consistent with the Traffic Impact Analysis, the project was assumed to be completed in one phase with construction starting no sooner than the beginning of February 2023 and being completed by mid-July 2025.[1]

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[1] The Project Phasing Description (July 8, 2021) shows that the project is to be completed in two phases; however, to be conservative and consistent with the TIA completed for the proposed project, it was modeled as being completed in one phase. The construction timeline for each construction phase was based on the total timeline for the proposed project (Phases 1 and 2 combined) provided in the Project Phasing Description.

SENSITIVE RECEPTORS IN PROJECT VICINITY

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

The nearest sensitive receptors to the project site include the single-family detached residential dwelling located adjacent to the west and north of the project site boundaries.
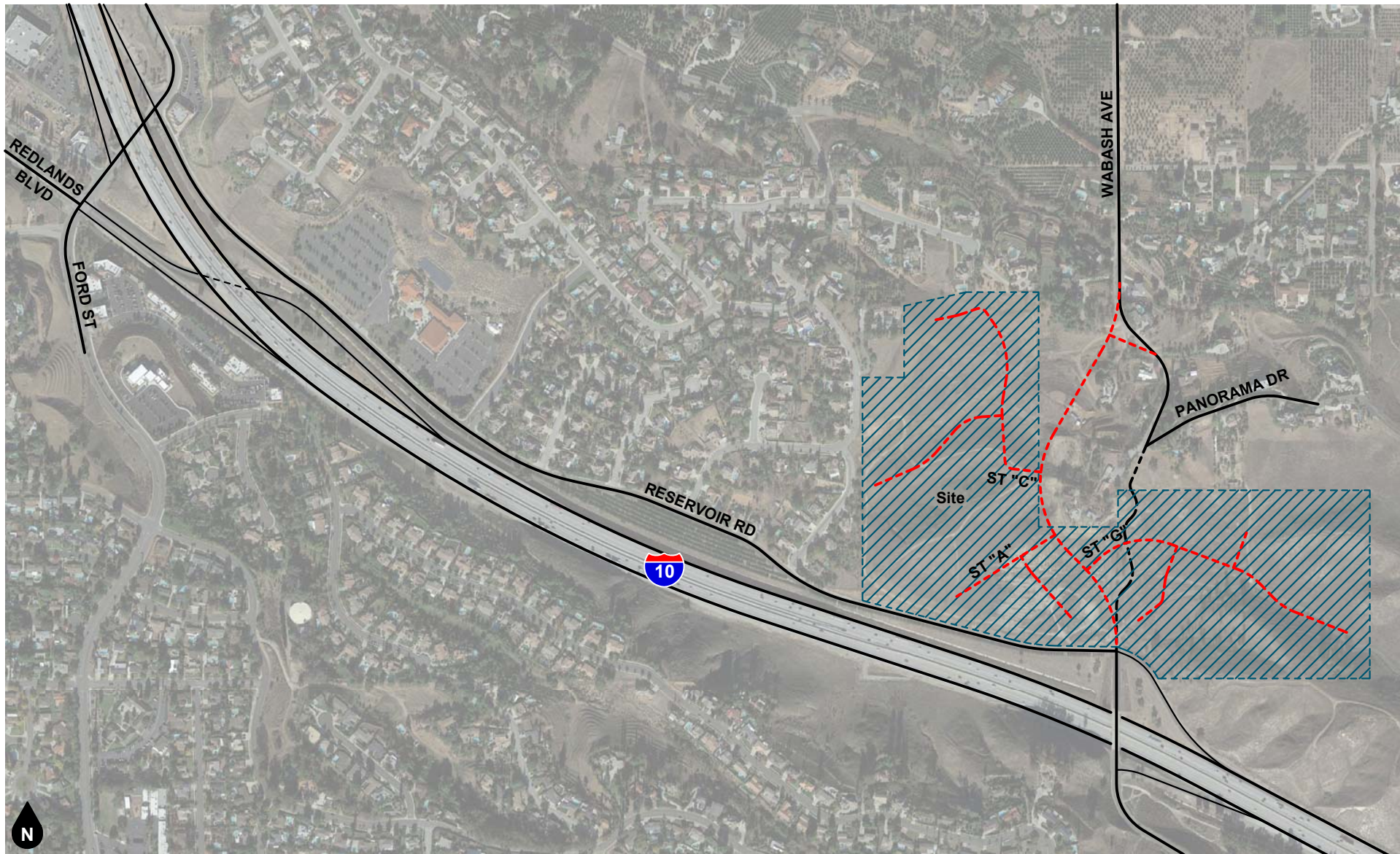
Figure 1
Project Location Map

Terracina at Redlands (TTM 20320)
Air Quality, Global Climate Change, HRA, and Energy Impact Analysis
19-0208
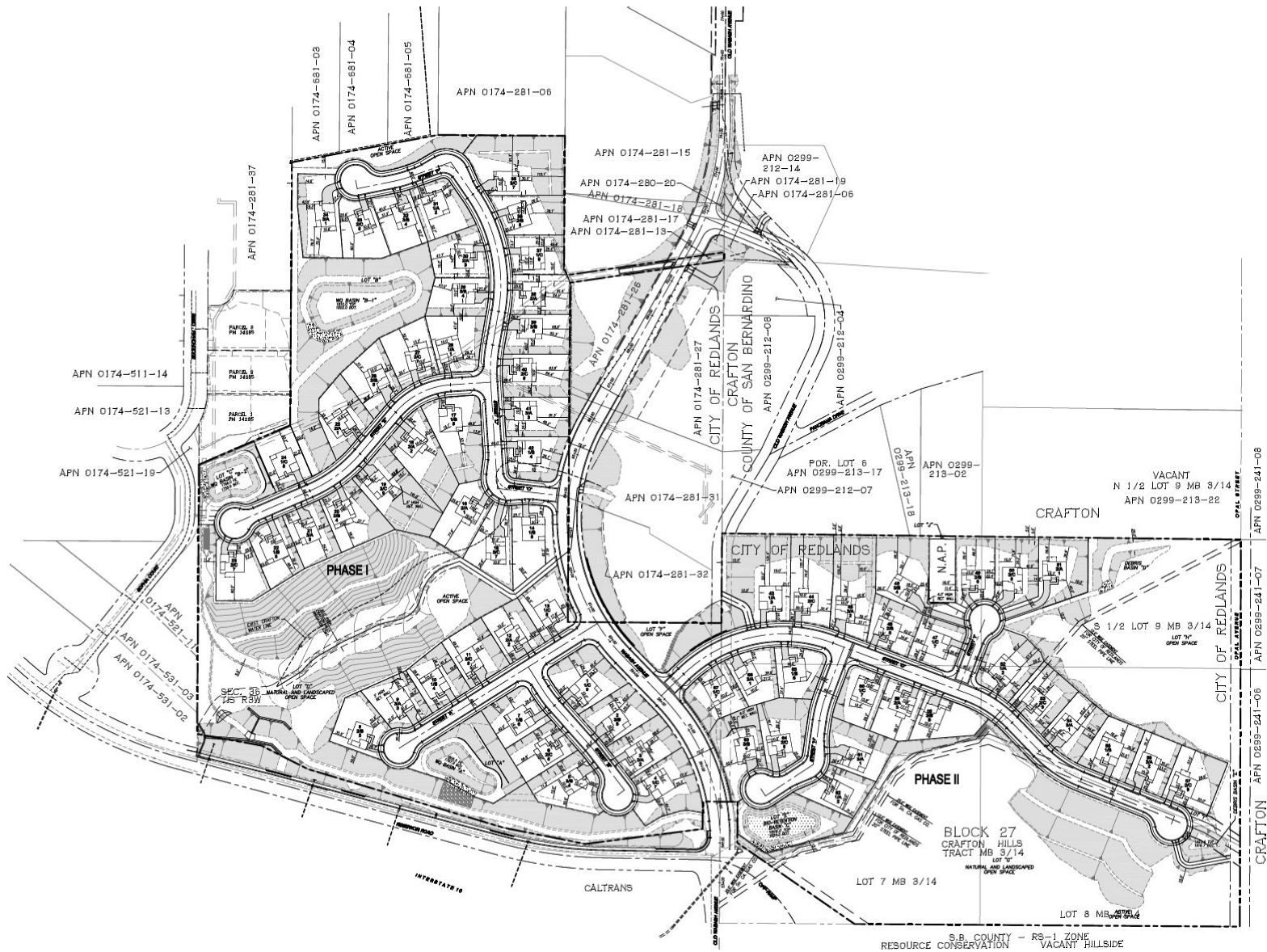
Figure 2
Site Plan

2. AIR QUALITY ANALYSIS

EXISTING AIR QUALITY CONDITIONS

Local Air Quality

The project site is located in the City of Redlands in San Bernardino County, which is part of the South Coast Air Basin (Basin) 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. The project site is located toward the northeast portion of the South Coast Air Basin near the foot of the San Bernardino Mountains, which define the eastern boundary of the South Coast Air Basin.

The climate of San Bernardino County, technically called an interior valley subclimate of the Southern California's Mediterranean-type climate, is characterized by hot dry summers, mild moist winters with infrequent rainfall, moderate afternoon breezes, and generally fair weather. Occasional periods of strong Santa Ana winds and winter storms interrupt the otherwise mild weather pattern. The clouds and fog that form along the area's coastline rarely extend as far inland as western Riverside County. When morning clouds and fog form, they typically burn off quickly after sunrise. The most important weather pattern from an air quality perspective is associated with the warm season airflow across the populated areas of the Los Angeles Basin. This airflow brings polluted air into western Riverside County late in the afternoon. This transport pattern creates unhealthful air quality that may extend to the project site particularly during the summer months.

Winds are an important parameter in characterizing the air quality environment of a project site because they both determine the regional pattern of air pollution transport and control the rate of dispersion near a source. Daytime winds in western Riverside County are usually light breezes from off the coast as air moves regionally onshore from the cool Pacific Ocean to the warm Mojave Desert interior of Southern California. These winds allow for good local mixing, but as discussed above, these coastal winds carry significant amounts of industrial and automobile air pollutants from the densely urbanized western portion of the South Coast Air Basin into the interior valleys which become trapped by the mountains that border the eastern edge of the South Coast Air Basin.

In the summer, 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 vehicular volumes in inland valleys 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 Redlands area, closest monitoring site with data, 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 in both time and space. 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	66.9	67.5	71	75.7	81	88.1	94.7	95.6	91.3	82.4	71.4	66.9
Avg. Min. Temperature	41.1	43	45.3	48.4	53.2	57.3	62.1	62.8	59.6	53.1	44.1	40.9
Avg. Total Precipitation (in.)	2.66	2.88	2.1	0.99	0.35	0.11	0.07	0.16	0.23	0.62	1.01	2.14

Source: https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca5790
Data from the Redlands, CA station (047306).

<u>Pollutants</u>

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

Criteria Pollutants

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

Nitrogen Dioxides

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

Ozone

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

Carbon Monoxide

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

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

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

Sulfur Dioxide

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

Lead

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

Particulate Matter

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

Reactive Organic Gases (ROG)

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

Other Pollutants of Concern

Toxic Air Contaminants

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

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

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

Asbestos

Asbestos is listed as a TAC by the ARB and as a Hazardous Air Pollutant by the EPA. Asbestos occurs naturally in mineral formations and crushing or breaking these rocks, through construction or other means, can release asbestiform fibers into the air. Asbestos emissions can result from the sale or use of asbestos-containing materials, road surfacing with such materials, grading activities, and surface mining. The risk of disease is dependent upon the intensity and duration of exposure. When inhaled, asbestos fibers may remain in the lungs and with time may be linked to such diseases as asbestosis, lung cancer, and mesothelioma. Naturally occurring asbestos is not present in San Bernardino County. The nearest likely locations of naturally occurring asbestos, as identified in the General Location Guide for Ultramafic Rocks in California prepared by the California Division of Mines and Geology, is located at Asbestos Mountain in the San Jacinto Mountains, approximately 47 miles southwest of the project 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 <u>may</u> 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.

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 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 Redlands

Local jurisdictions, such as the City of Redlands, 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

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

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 Healthy Community Element of the City of Redlands General Plan establishes principles and actions to improve air quality in the City. Applicable principles and actions include:

Policy 7-P.44   Protect air quality within the city and support efforts for enhanced regional air quality.

Policy 7-P.46   Increase average vehicle ridership during peak commute hours as a way of reducing vehicle miles traveled and peak period auto travel.

Policy 7-P.49   Protect sensitive receptors from exposure to hazardous concentrations of air pollutants.

Action 7-P.147   Cooperate with the ongoing efforts of the U.S. Environmental Protection Agency, the South Coast Air Quality Management District, and the State of California Air Resources Board in improving air quality in the regional air basin.

Action 7-P.46   Continue to monitor the City's compliance with State-mandated GHG emissions, as provided for in the Climate Action Plan. Make timely adjustments to City policies as required to continue meeting State GHG targets, and as changes in technology, federal and State programs, or other circumstances warrant.

Action 7-P.149   Ensure that construction and grading projects minimize short-term impacts to air quality.

Action 7-P.152   Enforce regulations to prevent trucks from excessive idling in residential areas.

Action 7-P.153   Require applicants for sensitive land uses (e.g., residences, schools, daycare centers, playgrounds, and medical facilities) to site development and/or incorporate design features (e.g., pollution prevention, pollution reduction, barriers, landscaping, ventilation systems, or other measures) to minimize the potential impacts of air pollution on sensitive receptors.

Action 7-P.154   Require applicants for sensitive land uses within a Proposition 65 warning contour to conduct a health risk assessment and mitigate any health impacts to a less than significant level.

Table 2
State and Federal Criteria Pollutant Standards

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O$_3$)	0.09 ppm/1-hour 0.07 ppm/8-hour	0.070 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO$_2$)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO$_2$)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/annual	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM$_{10}$)	50 µg/m^3/24-hour 20 µg/m^3/annual	150 µg/m^3/24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter (PM$_{2.5}$)	12 µg/m^3 / annual	35 µg/m^3/24-hour 12 µg/m^3/annual	
Sulfates	25 µg/m^3/24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage.
Lead	1.5 µg/m^3/30-day	0.15 µg/m^3/3-month rolling	(a) Learning disabilities; (b) Impairment of blood formation and nerve conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer- visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

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

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 East San Bernardino Valley Air Monitoring Area (Area 35). The nearest air monitoring station to the project site is the Redland - Dearborn Monitoring Station (Redlands Station). The Redlands Station is located approximately 1.4 miles northwest of the project site at 500 N. Dearborn, Redlands. As not all monitoring stations monitor all pollutants, data was also taken from the San Bernardino – 4th Street Monitoring Station (San Bernardino Station) located approximately 8.83 miles northwest of the project site at 24302 4th Street, San Bernardino 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 Redlands and San Bernardino Stations.

Table 4 summarizes 2017 through 2019 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 2017 to 2019 monitoring period, the State 1-hour concentration standard for ozone was exceeded between 53 and 80 days each year at the Redlands Station. The State 8-hour ozone standard has been exceeded between 99 and 117 days each year over the past three years at the Redlands Station. The Federal 8-hour ozone standard was exceeded between 95 and 116 days each year over the past three years at the Redlands 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 San Bernardino Station did not record an exceedance of the state or federal 8-hour CO standard for the last three years.

Nitrogen Dioxide

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

Particulate Matter

The State 24-hour concentration standards for PM10 were exceeded for two days each year in 2017 and 2018 over the last three years at the Redlands Station. Over the past three years, the Redlands 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 for one day each year in 2017 and 2019 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		
		2017	2018	2019
Ozone:	Maximum 1-Hour Concentration (ppm)	0.156	0.136	0.137
	Days > CAAQS (0.09 ppm)	**80**	**53**	**73**
	Maximum 8-Hour Concentration (ppm)	0.135	0.115	0.118
	Days > NAAQS (0.070 ppm)	**116**	**95**	**109**
	Days > CAAQS (0.070 ppm)	**117**	**99**	**111**
Carbon Monoxide:[2]	Maximum 8-Hour Concentration (ppm)	*	*	*
	Days > CAAQS (9 ppm)	0	0	0
	Days > NAAQS (9 ppm)	0	0	0
Nitrogen Dioxide:[2]	Maximum 1-Hour Concentration (ppm)	0.066	0.057	0.059
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10):	Maximum 24-Hour Concentration (µg/m^3)	77.0	74.2	44.9
	Days > NAAQS (150 µg/m3)	0	0	0
	Days > CAAQS (50 µg/m3)	**2**	**2**	*
	Annual Average (µg/m3)	26.2	26.4	26.0
Ultra-Fine Particulates (PM2.5):[2]	Maximum 24-Hour Concentration (µg/m3)	38.2	30.1	60.5
	Days > NAAQS (35 µg/m3)	**1**	0	**1**
	Annual Average (µg/m3)	11.4	11.1	*

Notes:
Source: http://www.arb.ca.gov/adam/topfour/topfour1.php. Data from the Redlands-Dearborn 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 San Bernardino - 4th 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

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[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 residential 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).

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[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 proposed project is the development of the site with residential uses; however, the southern boundary of the project site is located within 500 feet of the Interstate 10 Freeway. Therefore, the potential of freeway related health risks associated to the proposed project is examined in Section 3 of this report.

<u>Odor Impacts</u>

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: grading of approximately 64.56 acres; construction of 67 single-family residential dwelling units and approximately 28.2 acres of open space; paving of approximately 14.61 acres of on-site roadways; and application of architectural coatings. See Appendix B for more details.

The proposed project is anticipated to start construction no sooner than the beginning of February 2023 and being completed by mid-July 2025. The project is anticipated to be operational in 2025.[5]

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.[6]

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

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[5] The Project Phasing Description (July 8, 2021) shows that the project is to be completed in two phases; however, to be conservative and consistent with the TIA completed for the proposed project, it was modeled as being completed in one phase. The construction timeline for each construction phase was based on the total timeline for the proposed project (Phases 1 and 2 combined) provided in the Project Phasing Description.

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

access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. The Project area is approximately 64.54 acres and is anticipated to balance (no import/export); however, per the construction LST calculations in Table 7 below, the project will disturb no more than 5 acres per day. Therefore, as the project would not disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day, a Fugitive Dust Control Plan or Large Operation Notification would 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) grading, (2) building construction, (3) paving, and (4) 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 5 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 <u>Localized Significance Threshold Methodology</u> 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 East San Bernardino Valley source receptor area (SRA) 35 and a disturbance value of five acres per day. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25-meter thresholds. The nearest sensitive receptors to the project site are the single-family residential uses adjacent to the west and north of the project site; therefore, the SCAQMD Look-up Tables for 25 meters was used. Table 8 shows the on-site emissions from the CalEEMod model for the different construction phases and the LST emissions thresholds.

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

Construction-Related Human Health Impacts

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

Construction-Related Toxic Air Contaminant Impacts

The greatest potential for toxic air contaminant emissions would be related to diesel particulate emissions associated with heavy equipment operations during construction of the proposed project. According to the Office of Environmental Health Hazard Assessment (OEHHA)[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 29.5 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

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[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.

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 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
Grading	On-Site[1]	4.58	47.84	36.11	0.08	8.32	4.57
	Off-Site[2]	0.11	0.07	1.06	0.00	0.31	0.08
	Subtotal	4.69	47.91	37.16	0.09	8.64	4.66
Building Construction	On-Site[1]	2.68	24.16	26.29	0.05	1.15	1.09
	Off-Site[2]	3.52	13.60	35.04	0.14	11.15	3.09
	Subtotal	6.20	37.76	61.33	0.18	12.30	4.18
Paving	On-Site[1]	1.50	8.58	14.58	0.02	0.42	0.39
	Off-Site[2]	0.05	0.03	0.49	0.00	0.17	0.05
	Subtotal	1.55	8.61	15.07	0.02	0.59	0.43
Architectural Coating	On-Site[1]	17.15	1.15	1.81	0.00	0.05	0.05
	Off-Site[2]	0.54	0.32	5.25	0.02	1.81	0.48
	Subtotal	17.69	1.46	7.06	0.02	1.86	0.54
Total for overlapping phases[3]		25.43	47.83	83.46	0.22	14.75	5.14
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 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
Grading	Rubber Tired Dozers	2	0.5	1
	Graders	2	0.5	1
	Scrapers	2	1	2
	Crawler Tractors[1]	2	0.5	1
Total for phase		-	-	5

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
Grading	47.84	36.11	8.32	4.57
Building Construction	24.16	26.29	1.15	1.09
Paving	8.58	14.58	0.42	0.39
Architectural Coating	1.15	1.81	0.05	0.05
SCAQMD Thresholds[1]	270	2,075	14	9
Exceeds Threshold?	No	No	No	No

Notes:

Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 5 acres at a distance of 25 m in SRA 35 East San Benardino Valley.

(1) The nearest sensitive receptors are the single-family detached residential dwelling located adjacent to the west and north of the project site; therefore, the 25 meter threshold was used.

Note: The project will disturb up to a maximum of 5 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 2025, which is the anticipated opening year 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 Terracina at Redlands (TTM 20320) Project Traffic Impact Analysis (TIA) prepared by Ganddini Group, Inc. (July 28, 2021) into the CalEEMod Model. The TIA found that the proposed project would create approximately 632 vehicle trips per day with a trip generation rate of 9.44 trips per dwelling unit 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.

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 9. 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 632 daily vehicle trips. The intersection with the highest traffic volume is located at Ford Street and Reservoir Road and has an Existing Plus Project PM peak hour volume of 470 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 Air Basin. Single-family detached residential dwelling units are located adjacent to the west and north of the project site.

According to SCAQMD LST methodology, LSTs would apply to the operational phase of a project, if the project includes stationary sources, or attracts mobile sources (such as heavy-duty trucks) that may spend long periods queuing and idling at the site; such as industrial warehouse/transfer facilities. The proposed project consists of the development of the site with residential uses and does not include such uses. Therefore, due the lack of stationary source emissions, no long-term localized significance threshold analysis is warranted.

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.

Table 9
Regional Operational Pollutant Emissions

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources[1]	3.68	1.06	5.95	0.01	0.11	0.11
Energy Usage[2]	0.06	0.48	0.20	0.00	0.04	0.04
Mobile Sources[3]	2.00	2.68	19.45	0.04	4.60	1.25
Total Emissions	5.73	4.23	25.61	0.05	4.75	1.40
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.

CUMULATIVE AIR QUALITY IMPACTS

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

Project Specific Impacts

The project area is out of attainment for ozone, 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.

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

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

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

Both of these criteria are evaluated in the following sections.

Criteria 1 – Increase in the Frequency or Severity of Violations

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

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

Criteria 2 – Exceed Assumptions in the AQMP?

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

The project site is currently designated as Very Low Density Residential in the City of Redlands General Plan. The project proposes to develop the site with 67 single-family residential uses on approximately 64.54 acres. 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 proposed project would be exposed to toxic air contaminant emissions from diesel truck emissions from nearby freeway DPM sources. As stated previously, in the *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal. 4th 369 (CBIA) case the California Supreme Court determined that CEQA does not generally require an impact analysis of the existing environmental conditions on the future residents of a proposed project and generally only requires an analysis of the proposed project's impact on the environment. However, the CBIA case also stated that when a proposed project brings development and people into an area already subject to specific hazards and the new development/people exacerbate the existing hazards, then CEQA requires an analysis of the hazards and the proposed project's effect in terms of increasing the risks related to those hazards. In regards to air quality hazards, TACs are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. As such, if a proposed project would not exacerbate pre-existing hazards (e.g., TAC health risks) then an analysis of those hazards and the proposed project's effect on increasing those hazards is not required. However, as the project is a residential project and will not be a source of toxic air contaminants, and the existing conditions on the project site does not contain any operational land uses that emit toxic air contaminants, the following health risk assessment was performed for informational and disclosure purposes only.

SCAQMD methodology states that 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[10].

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.

The ARB Air Quality and Land Use Handbook (ARB Handbook) provides an advisory recommendation to avoid the locating of new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day, or rural roads with 50,000 vehicles per day. The proposed residential uses are to be located approximately 250 feet of the Interstate 10 freeway. The California Department of Transportation vehicular counts show 2019 AADT numbers of 155,000 (ahead AADT) at the segment of Redlands, Wabash Avenue with a total of 20,150 (13%) of those vehicles being trucks.

According to the SCAQMD's MATES-V study, the project area has an estimated multi-pathway cancer risk of 403 in one million and an inhalation cancer risk of 382 in one million. In comparison the average multi-pathway cancer risk for the South Coast Air Basin portion of San Bernardino County is 471 in one million and the

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[10] In February 2015, the Office of Environmental Health Hazard Assessment updated their "Air Toxics Hot Spots Program, Risk Assessments Guidelines, Guidance Manual for Preparation of Health Risk Assessments; however, the updated OEHHA guidance states in the page footers "do not cite or quote." SCAQMD staff have incorporated the updates into their methodology for SCAQMD's Rules 1401, 1401.1, 1402, and 212, and have updated their HRA Guidance for permitting; however they are still in the process of updating the guidance for CEQA analyses (via working group sessions); however, to be conservative, the new OEHHA guidance was used to assess HRA impacts in this analysis.

inhalation cancer risk is 439 in a million. This increased cancer risk at the project site is largely due to the proximity to the Interstate 10 freeway

To determine the potential health risk from freeway emissions sources to the future residents of the project site, a health risk estimate was performed.

ESTIMATE OF EMISSIONS FACTORS

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2017 mobile source emission model for the South Coast Air Basin. The 1-year exposure used opening year (2025) emissions factors and reflects exposure during third trimester, 2-year factors (for infant exposure) reflect years 2026 and 2027, the first 14-year average factors are used for child exposure during years 2-16) reflect emissions during the subsequent 14 years of operation (2028 to 2041), and the second 14 years of exposure (years 2042-2055[11]) were used for assessment of adult exposure during years 16 to 30. The four different sets of emissions factors used in this assessment are detailed in Table 10. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases have declined beyond 2021 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. Table 11 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 11:

Line source: A series of volume sources along a path, for example, vehicular volumes along a roadway (shown as blue lines on Figure 3).

Figure 3 provides the location of the receptors (shown by orange triangles) and emission source locations, shown by the blue line along each direction of the freeway (as the emissions are calculated for both the northbound and southbound lanes of the freeway). The residential area is outlined in pink.

RECEPTOR NETWORK

The assessment requires that a network of receptors be specified where the impacts can be computed at the various locations. Receptors were located at the closest proposed sensitive receptors to the Interstate 10 Freeway (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 the freeway applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air

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[11] EMFAC2017 only estimates emissions out to the year 2050; therefore, for years beyond 2050, the values for 2050 are used.

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.

General Model Assumptions

A summary of Emission Configurations is shown in Table 11. The basic options used in the dispersion modeling are summarized in Table 12.

Meteorological Data

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

ESTIMATION OF HEALTH RISKS

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

Cancer Risks

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

[Dose-air (mg/(Kg-day)]*Cancer Potency*[1×10^{-6}] = Potential Cancer Risk

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

Where:
Cair   [Concentration in air (µg/m3)] = (Calculated by AERMOD Model)
DBR   [Daily breathing rate (L/kg body weight – day)] = 261 for adults, 572 for children, and 1,090 for infants, and 361 for 3rd trimester per SCAQMD Permit Application Package "N" Table 4.1 D guidance.

A   [Inhalation absorption factor] = 1
EF   [Exposure frequency (days/year)] = 350
ED   [Exposure duration (years)] = 30 for adults (for an individual who is an adult at opening year), 14 for children (from 2-16 years), 14 for adults (from 16-30 years), 2 for infants, and 1 for 3rd Trimester
ASF   [Age sensitivity factor) = 10 for 3rd trimester to 2 years of age, 3 for 2 to 16 years of age, and 1 for 16 to 30 years of age
FAH   [Fraction of time spent at home] = 1 for 3rd trimester to 2 years of age, 1 for 2 to 16 years of age, and 0.73 for 16 to 30 years of age
10^6 [Micrograms to milligrams conversion]
AT   [Average time period over which exposure is averaged in days] = 25,550

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

Table 13 show the cancer risk for the unborn child during the 3rd trimester, Table 14 shows the cancer risk to infants (0-2 years), Table 15 shows the cancer risk to children ages 2 to 16 years and Table 16 shows the cancer risk as that child becomes an adult (years 16-30). The highest cancer risk corresponds to child cancer risk 2-16 years (see Table 15), and is at receptor 2, with a maximum risk of 16 in one million. The highest infant cancer risk 0-2 years is also at receptor 2; with a maximum risk of 15.83 in one million. Therefore, children and infants are exposed to cancer risks in excess of 10 in a million from freeway-related DPM sources.

The assessment of cancer-related health risk to proposed sensitive receptors 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 34.22 in a million at receptor location 2, as shown in Table 17. Therefore, the on-going operations of the proposed project could result in a significant impact due to the cancer risk from diesel emissions to the proposed project.

There currently is no SCAQMD TAC threshold for "existing" cancer risk to sensitive receptors. The SCAQMD TAC threshold of 10 in one million is defined as the "maximum incremental cancer risk." As the project does not involve the construction of sources that would significantly contribute to "incremental cancer risk," the application of the 10 in one million threshold is not well applied in this case. Other air quality districts have refined methodology and thresholds for evaluation of the health risks posed by heavily traveled roadways and freeways to adjacent receptors. For example, the Bay Area Air Quality Management District has a "Roadway Screening Analysis" procedure and thresholds based on annual average daily traffic (AADT) and distance from the source. The San Luis Obispo Air Pollution Control District has a requirement that new land use projects that will place sensitive receptors (e.g., residential units) in close proximity to existing toxics sources (e.g., freeway) must not exceed the CEQA health risk threshold of 89 in a million.

However, as the cancer risk exceeds the SCAQMD MICR threshold of 10 in a million, mitigation is required. Mitigation requiring minimum efficiency reporting value (MERV) 13 filters would remove a substantial amount of particulates, including DPM. MERV 13 filters have a particle size removal efficiency rating of greater than 90 percent for particulates 3 micron to 10 microns in size and a rating of 85 percent for particles 1.0 to 3.0 micron in size.[12] A MERV 13 filter creates more resistance to airflow because the filter media becomes denser as efficiency increases. The MERV filters do not remove gaseous pollutants; however. See Mitigation Measure 1 in Section 6 of this report for details. Therefore, indoor (interior) exposure to DPM (of particles greater than 1.0 micron) and consequently cancer risk would be reduced by 85 percent, to 5.13 in one million; less than the 10 in one million SCAQMD threshold. Outdoor levels would still present a risk level exceeding the SCAQMD threshold of 10 in one million.

Non-Cancer Risks

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

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[12] Source: https://www.secondnature.com/blog/what-merv-rating-should-i-use

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 13 through 16 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 2025-2055, the resulting Hazard Index is:

HIDPM = 0.0494/5 = 0.0099

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 freeway-related diesel emissions to the proposed project.

Table 10
DPM Vehicular Emission Factors[1]

Vehicle Type	MPH assumed for vehicle type	1-year (2025) Average DPM Exhaust Emissions Factor(g/mi)
Light Duty Auto (LDA)	70	0.004164408
Light Duty Truck 1 (LDT1)	70	0.139326979
Light Duty Truck 2 (LDT2)	70	0.003725823
Medium Duty Truck (MDV)	60	0.003161293
Light-Heavy Duty Truck 1 (LHDT1)	60	0.015608783
Light-Heavy Duty Truck 2 (LHDT2)	60	0.015765879
Medium-Heavy Duty Truck (MHDT)	55	0.010109
Heavy-Heavy Duty Truck (HHDT)	55	0.023525

Vehicle Type	MPH assumed for vehicle type	2-year (2026-2027) Average DPM Exhaust Emissions Factor(g/mi)
Light Duty Auto (LDA)	70	0.003031835
Light Duty Truck 1 (LDT1)	70	0.095229131
Light Duty Truck 2 (LDT2)	70	0.00346121
Medium Duty Truck (MDV)	60	0.002727943
Light-Heavy Duty Truck 1 (LHDT1)	60	0.014034685
Light-Heavy Duty Truck 2 (LHDT2)	60	0.014960975
Medium-Heavy Duty Truck (MHDT)	55	0.010208
Heavy-Heavy Duty Truck (HHDT)	55	0.023467

Vehicle Type	MPH assumed for vehicle type	1st 14-year (2028-2041) Average DPM Exhaust Emissions Factor(g/mi)
Light Duty Auto (LDA)	70	0.001149899
Light Duty Truck 1 (LDT1)	70	0.009619132
Light Duty Truck 2 (LDT2)	70	0.003242716
Medium Duty Truck (MDV)	60	0.001337376
Light-Heavy Duty Truck 1 (LHDT1)	60	0.008294268
Light-Heavy Duty Truck 2 (LHDT2)	60	0.012232816
Medium-Heavy Duty Truck (MHDT)	55	0.010282
Heavy-Heavy Duty Truck (HHDT)	55	0.022548

Vehicle Type	MPH assumed for vehicle type	2nd 14-year (2042-2055) Average DPM Exhaust Emissions Factor(g/mi)
Light Duty Auto (LDA)	70	0.000572728
Light Duty Truck 1 (LDT1)	70	0.003442482
Light Duty Truck 2 (LDT2)	70	0.00329775
Medium Duty Truck (MDV)	60	0.000663243
Light-Heavy Duty Truck 1 (LHDT1)	60	0.004460849
Light-Heavy Duty Truck 2 (LHDT2)	60	0.010553487
Medium-Heavy Duty Truck (MHDT)	55	0.010028
Heavy-Heavy Duty Truck (HHDT)	55	0.022173

Source: EMFAC2017 for South Coast.

Table 11
Summary of Emission Configurations

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Traffic	Line Sources	Plume height: 3.66 meters
		Vehicle speed: See Table 10
		Length of the line source (10 Freeway segment southwest of project site)
		Vehicle types: see Table 10
		Emission factor: CARB EMFAC2017

Table 12
General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Zone	11 North
Terrain processing	AERMAP NED GEOTIFF (30 m)
Emission source configuration	See Table 11
Regulatory dispersion options	Default
Land use	Urban[1]
Coordinate system	UTM
Receptor height	0 meters above ground[1]
Meteorological data	SCAQMD Redlands

Notes:

(1) Per SCAQMD AERMOD guidance methodology, available at
http://www.aqmd.gov/home/library/air-quality-data-studies/meteorological-
data/modeling-guidance

Table 13
Carcinogenic Risks and Non-Carcinogenic Hazards
3rd Trimester Exposure Scenario (0.25-Years)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Index (j)
1	0.04712	4.7E-05	1.00E+00	DPM	1.1E+00	0.64	5.0E+00	1.4E-03	0.0094
2	0.0494	4.9E-05	1.00E+00	DPM	1.1E+00	0.67	5.0E+00	1.4E-03	0.0099
3	0.03911	3.9E-05	1.00E+00	DPM	1.1E+00	0.53	5.0E+00	1.4E-03	0.0078
4	0.03108	3.1E-05	1.00E+00	DPM	1.1E+00	0.42	5.0E+00	1.4E-03	0.0062
5	0.01342	1.3E-05	1.00E+00	DPM	1.1E+00	0.18	5.0E+00	1.4E-03	0.0027
OS_6	0.01377	1.4E-05	1.00E+00	DPM	1.1E+00	0.19	5.0E+00	1.4E-03	0.0028
7	0.02347	2.3E-05	1.00E+00	DPM	1.1E+00	0.32	5.0E+00	1.4E-03	0.0047
8	0.02407	2.4E-05	1.00E+00	DPM	1.1E+00	0.33	5.0E+00	1.4E-03	0.0048

Notes:

Exposure factors used to calculate TAC intake:

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

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

Table 14
Carcinogenic Risks and Non-Carcinogenic Hazards
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)	Index (j)
1	0.04598	4.6E-05	1.00E+00	DPM	1.1E+00	**15.10**	5.0E+00	1.4E-03	0.0092
2	0.0482	4.8E-05	1.00E+00	DPM	1.1E+00	**15.83**	5.0E+00	1.4E-03	0.0096
3	0.03816	3.8E-05	1.00E+00	DPM	1.1E+00	**12.54**	5.0E+00	1.4E-03	0.0076
4	0.03032	3.0E-05	1.00E+00	DPM	1.1E+00	9.96	5.0E+00	1.4E-03	0.0061
5	0.01309	1.3E-05	1.00E+00	DPM	1.1E+00	4.30	5.0E+00	1.4E-03	0.0026
OS_6	0.01344	1.3E-05	1.00E+00	DPM	1.1E+00	4.41	5.0E+00	1.4E-03	0.0027
7	0.0229	2.3E-05	1.00E+00	DPM	1.1E+00	7.52	5.0E+00	1.4E-03	0.0046
8	0.02349	2.3E-05	1.00E+00	DPM	1.1E+00	7.72	5.0E+00	1.4E-03	0.0047

Notes:

Exposure factors used to calculate TAC intake:

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

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

Table 15
Carcinogenic Risks and Non-Carcinogenic Hazards
Child Exposure Scenario (14-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
					Carcinogenic Hazards		**Noncarcinogenic Hazards**		
1	0.04218	2.7E-03	1.00E+00	DPM	1.1E+00	15.27	5.0E+00	1.4E-03	0.0084
2	0.04421	2.5E-03	1.00E+00	DPM	1.1E+00	16.00	5.0E+00	1.4E-03	0.0088
3	0.035	2.5E-03	1.00E+00	DPM	1.1E+00	12.67	5.0E+00	1.4E-03	0.0070
4	0.02782	2.5E-03	1.00E+00	DPM	1.1E+00	10.07	5.0E+00	1.4E-03	0.0056
5	0.01201	2.5E-03	1.00E+00	DPM	1.1E+00	4.35	5.0E+00	1.4E-03	0.0024
OS_6	0.01233	2.5E-03	1.00E+00	DPM	1.1E+00	4.46	5.0E+00	1.4E-03	0.0025
7	0.021	2.5E-03	1.00E+00	DPM	1.1E+00	7.60	5.0E+00	1.4E-03	0.0042
8	0.02154	2.2E-05	1.00E+00	DPM	1.1E+00	7.80	5.0E+00	1.4E-03	0.0043

Notes:

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 16
Carcinogenic Risks and Non-Carcinogenic Hazards
Adult Exposure Scenario (14-Year)

Receptor ID (a)	Maximum Concentration (ug/m3) (b)	Maximum Concentration (mg/m3) (c)	Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards CPF (mg/kg/day) (f)	Carcinogenic Hazards RISK (per million) (g)	Noncarcinogenic Hazards REL (ug/m3) (h)	Noncarcinogenic Hazards RfD (mg/kg/day) (i)	Index (j)
1	0.04066	4.1E-05	1.00E+00	DPM	1.1E+00	1.63	5.0E+00	1.4E-03	0.0081
2	0.04262	4.3E-05	1.00E+00	DPM	1.1E+00	1.71	5.0E+00	1.4E-03	0.0085
3	0.03374	3.4E-05	1.00E+00	DPM	1.1E+00	1.36	5.0E+00	1.4E-03	0.0067
4	0.02682	2.7E-05	1.00E+00	DPM	1.1E+00	1.08	5.0E+00	1.4E-03	0.0054
5	0.01158	1.2E-05	1.00E+00	DPM	1.1E+00	0.47	5.0E+00	1.4E-03	0.0023
OS_6	0.01188	1.2E-05	1.00E+00	DPM	1.1E+00	0.48	5.0E+00	1.4E-03	0.0024
7	0.02025	2.0E-05	1.00E+00	DPM	1.1E+00	0.81	5.0E+00	1.4E-03	0.0041
8	0.02077	2.1E-05	1.00E+00	DPM	1.1E+00	0.83	5.0E+00	1.4E-03	0.0042

Notes:

Exposure factors used to calculate TAC intake

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

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

Table 17
Cumulative Carcinogenic Risk
30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	32.65
2	34.22
3	27.09
4	21.53
5	9.30
OS_6	9.54
7	16.26
8	16.68

Legend

— Project Boundary   ▲ Disctete Receptors

— Freeway DPM

▦ Cartesian Receptors
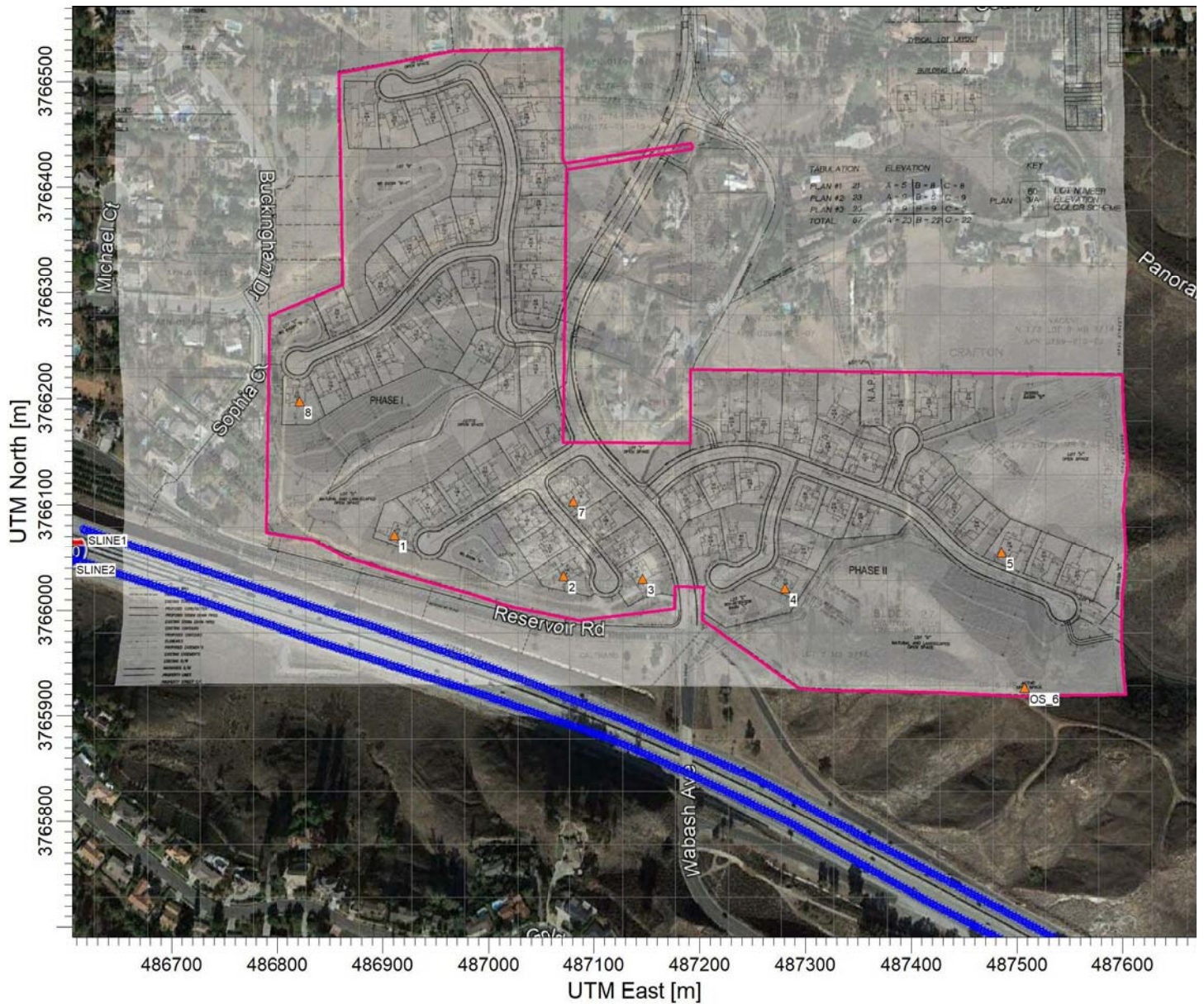
Figure 3
AERMOD Model Source and Receptor Placement

WIND SPEED (m/s)

Color	Range
(blue)	>= 11.10
(green)	8.80 - 11.10
(light green)	5.70 - 8.80
(yellow)	3.60 - 5.70
(orange)	2.10 - 3.60
(red)	0.40 - 2.10

Calms: 0.44%
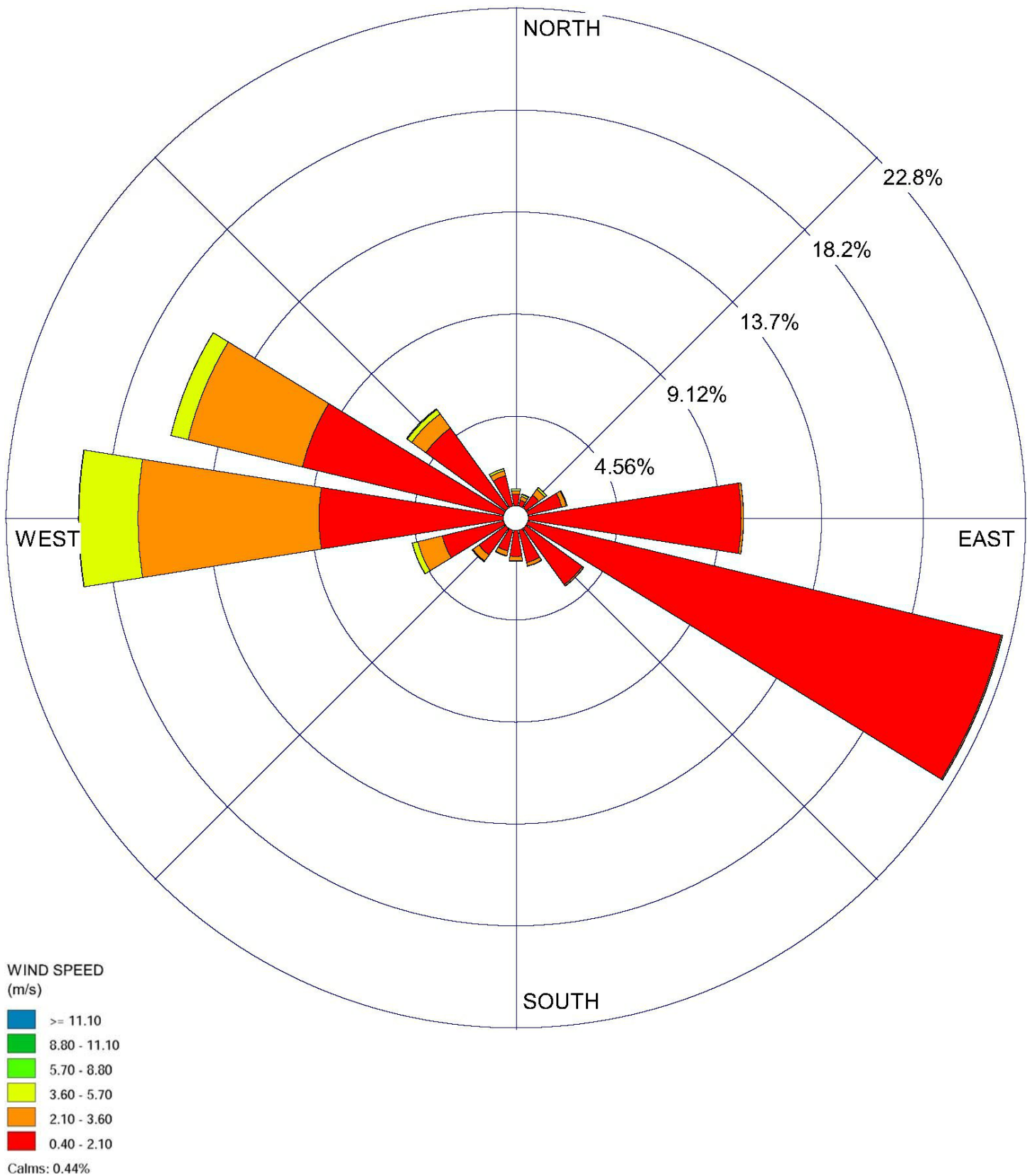
Figure 4
Wind Rose: Redlands

N
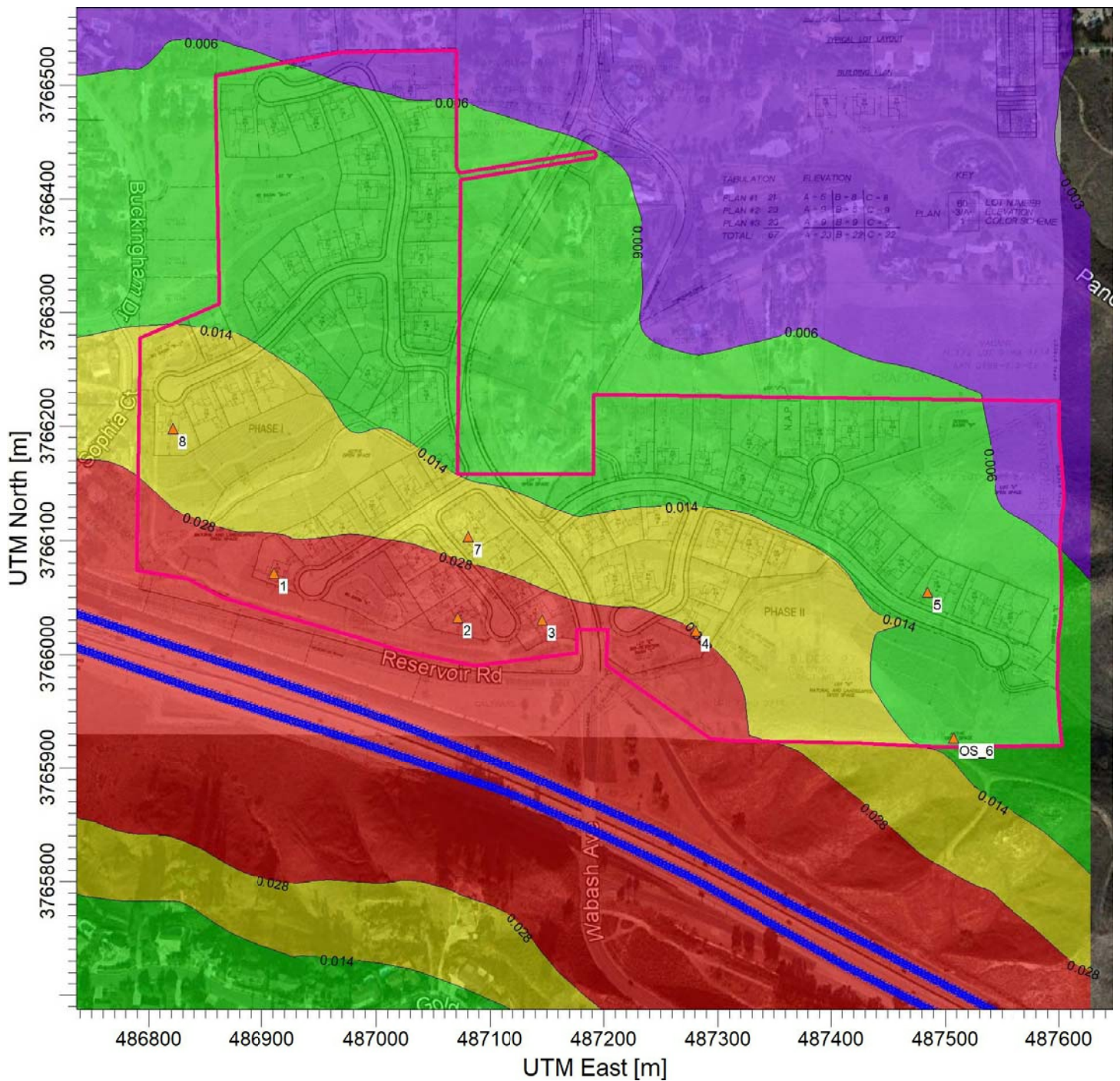
Figure 5
Modeled Study Area Highest Annual DPM Emissions

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$_2$O, 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$_2$O)

Concentrations of N$_2$O 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$_2$O 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$_2$H$_6$) 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$_3$CH$_2$F), and HFC-152a (CH$_3$CHF$_2$). 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$_2$F$_6$). 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 18. As shown in Table 18, the global warming potential of GHGs ranges from 1 to 22,800.

Table 18
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.[13]

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)[14] and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO_2 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 CO_2 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.[15] In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

Issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020), the Safer Affordable Fuel-Efficient Vehicles Rule would maintain the CAFE and CO_2 standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO_2 standards for model year 2020 are 43.7 mpg and 204 grams of CO_2 per mile for passenger cars and 31.3 mpg and 284 grams of CO_2 per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012. This Rule also excludes CO_2- equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.[16]

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

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[13] 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.

[14] 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.

[15] 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.

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

[CAAQS]), compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

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

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

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

Assembly Bill 1493

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

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 CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6 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."[17] 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

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[17] 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.[18]

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."[19] 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.

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[18] 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
[19] 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 Redlands

City of Redlands Climate Action Plan

The City adopted the City of Redlands Climate Action Plan (CAP) on December 5, 2017. This CAP was designed to reinforce the City's commitment to reducing greenhouse gas (GHG) emissions, and demonstrate how the City will comply with State of California's GHG emission reduction standards. The CAP was prepared concurrently with the updated Redlands General Plan and provides analysis of GHG emissions to the year 2035, which is the horizon year for the General Plan. The CAP reflects guidelines established in the 2017 Scoping Plan prepared by the California Air Resources Board (CARB). The CAP used a linear trajectory in emissions reductions between 2030 and 2050 to determine the 2035 target of 5 MTCO2e per capita per year. The CAP also has a Year 2015 GHG emissions target of 6.1 MTCO2e per capita per year and a Year 2030 GHG emissions target of 6.0 per capita per year.

City of Redlands General Plan

The Sustainable Community Element of the City's General Plan includes the following principles and actions related to the reduction of greenhouse gases.

Policy 8-P.9   Undertake initiatives to enhance sustainability by reducing the community's GHG emissions.

Policy 8-P.10   *D*emonstrate leadership by reducing the use of energy and fossil fuel consumption in municipal operations, including transportation, waste reduction, and recycling, and by promoting efficient building design and use.

Action 8-A.45   Prepare a Climate Action Plan to ensure that the Planning Area complies with State-mandated GHG emissions.

Action 8-A.46   Continue to monitor the City's compliance with State-mandated GHG emissions, as provided for in the Climate Action Plan. Make timely adjustments to City policies as required to continue meeting State GHG targets, and as changes in technology, federal and State programs, or other circumstances warrant.

Action 8-A.47   Demonstrate City leadership by giving preference to or providing incentives for climate-friendly purchasing.

Action 8-A.48   Support a regional approach to study the feasibility of establishing Community Choice Aggregation (CCA) or another program that increases the renewable energy supply and maintains the reliability and sustainability of the electrical grid.

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[20].

Thresholds of Significance for this Project

To determine whether the project's GHG emissions are significant, this analysis uses the SCAQMD draft screening threshold of 3,000 MTCO2e per year and the GHG emissions threshold of 6.0 MTCO2e per capita per year for year 2025 GHG emissions.

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 2025 is available in Appendix C. Each source of GHG emissions is described in greater detail below.

Area Sources

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

Energy Usage

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

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed by inputting the project-generated vehicular trips from the TIA into the CalEEMod Model. The program then applies the emission factors for each trip which is provided by the 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 requires that 75 percent of waste be diverted from landfills by 2020, reductions for this are shown in the mitigated CalEEMod output values. Credit was taken in Table 19 for compliance with this regulation.

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. Per CalGreen standards,

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[20] 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.

indoor water use is required to be reduce by 20 percent reductions for this are shown in the mitigated CalEEMod output values. Credit was taken in Table 19 for compliance with this regulation.

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 19 and the CalEEMod Model run for the proposed project is provided in Appendix C. Table 19 shows that the total for the proposed project's emissions (including credit for reductions for compliance with Cal Green and AB 341 regulatory requirements) would be 1,114.94 MTCO2e per year. According to the thresholds of significance established above, a cumulative global climate change impact would occur if the GHG emissions created from the on-going operations of the proposed project would exceed the SCAQMD draft threshold of 3,000 $MTCO_2e$ per year for all land uses. Furthermore, using the population data of 192 residents from CalEEMod, the project would generate GHG emissions of 5.81 MTCO2e per capita per year. Therefore, the project's emissions do not exceed either the SCAQMD 3,000 MTCO2e/year draft emissions threshold or the City of Redlands CAP Year 2030 Service Population of 6.0 MTCO2e per capita per year.

The operation of the proposed project would not create a significant cumulative impact to global climate change. No mitigation is required.

Table 19
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	15.61	15.61	0.00	0.00	15.72
Energy Usage[2]	0.00	195.77	195.77	0.01	0.00	196.86
Mobile Sources[3]	0.00	713.22	713.22	0.04	0.04	724.61
Waste[4]	15.98	0.00	15.98	0.94	0.00	9.90
Water[5]	1.38	15.50	16.89	0.14	0.00	18.31
Construction[6]	0.00	146.77	146.77	0.01	0.01	149.54
Total Emissions	17.36	1,086.87	1,104.23	1.15	0.05	1,114.94
SCAQMD Draft Threshold for All Land Uses						3,000
Exceeds Threshold?						No
MTCO2e per Service Population Per Year						5.81
City of Redlands CAP Year 2030 Service Population Threshold Per Capita Per Year						6
Exceeds Threshold?						No

Notes:
Source: CalEEMod Version 2020.4.0 for Opening Year 2025.

(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 applicable plan for the proposed project is the City of Redlands CAP, which was prepared pursuant to Section 15183.5(b) of the CEQA Guidelines to be utilized as a tiering document for the General Plan as well as future projects within the City that are consistent with the General Plan. As stated in the Air Quality Compliance Section of the report above, the project is consistent with the General Plan, therefore, the proposed project meets the criteria allowed for use of the CAP for analysis of the proposed project.

The CAP incorporates the guidelines established in CARB's 2017 Scoping Plan. The 2017 Scoping Plan was prepared to meet the most current GHG emissions reduction targets set in Executive Order S-3-05 and SB 32 that recommends local governments to develop plans to reduce GHG emissions to 6 MTCO2e per capita per year by the year 2030 and 2 MTCO2e per capita per year by the year 2050. The CAP was prepared in coordination with the General Plan that has a horizon year of 2035, and therefore, provides a year 2035 target of 5 MTCO2e per capita per year. As shown in Table 19, the proposed project is anticipated to be operational in 2025 and would generate 1,114.94 MTCO2e per year resulting in 5.81 MTCO2e per service population per year, which is below the 6 MTCO2e per year per service population threshold for 2030. Therefore, as the CAP used a linear trajectory in emissions reductions between 2030 and 2050 to determine the 2035 target of 5 MTCO2e per capita per year and the proposed project's emissions in 2025 are below the service population threshold for 2030, the proposed project's emissions would be anticipated to meet the City's year 2035 service population threshold.

Therefore, the proposed project is consistent with the Redlands CAP and would not conflict with the applicable plan adopted for the purpose of reducing the emissions of greenhouse gases. Impacts would be less than significant. Furthermore, the project will comply with applicable Green Building Standards and City of Redlands' policies regarding sustainability (as dictated by the City's General Plan). Impacts are considered to be less than significant.

CUMULATIVE GREENHOUSE GAS IMPACTS

Although the project is expected to emit GHGs, the emission of GHGs by a single project into the atmosphere is not itself necessarily an adverse environmental effect. Rather, it is the increased accumulation of GHG from more than one project and many sources in the atmosphere that may result in global climate change. Therefore, in the case of global climate change, the proximity of the project to other GHG emission generating activities is not directly relevant to the determination of a cumulative impact because climate change is a global condition. According to CAPCOA, "GHG impacts are exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective."[21] 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),[22] the City, as lead agency, has determined that the project's contribution to cumulative GHG emissions and global climate change would be less than significant if the project is consistent with the applicable regulatory plans and policies to reduce GHG emissions.

As discussed in the Consistency With Applicable Greenhouse Gas Reduction Plans and Policies section above, the project is consistent with the goals and objectives of the City of Redlands CAP.

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

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[21] 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).

[22] 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 2019 included:

- Approximately 277,704 gigawatt hours of electricity;[23]
- Approximately 2,154,030 million cubic feet of natural gas per year[24]; and
- Approximately 23.2 billion gallons of transportation fuel (for the year 2015).[25]

As of 2018, 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 39.1 percent transportation;
- Approximately 23.5 percent industrial;
- Approximately 18.3 percent residential; and
- Approximately 19.2 percent commercial.[26]

California's electricity in-state generation system generates approximately 200,475 gigawatt-hours each year. In 2019, California produced approximately 72 percent of the electricity it uses; the rest was imported from the Pacific Northwest (approximately 9 percent) and the U.S. Southwest (approximately 19 percent). Natural gas is the main source for electricity generation at approximately 42.97 percent of the total in-state electric generation system power as shown in Table 20.

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.

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[23] California Energy Commission. Energy Almanac. Total Electric Generation. [Online] 2020.
https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2019-total-system-electric-generation.

[24] Natural Gas Consumption by End Use. U.S. Energy Information Administration. [Online] August 31, 20020.
https://www.eia.gov/dnav/ng/ng_cons_sum_dcu_SCA_a.htm.

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

[26] 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.[27]

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.[28] 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.[29]

Table 21 identifies SCE's specific proportional shares of electricity sources in 2019. As shown in Table 21, the 2019 SCE Power Mix has renewable energy at 35 percent of the overall energy resources, of which biomass and waste is at 1 percent, geothermal is at 8 percent, eligible hydroelectric is at 1 percent, solar energy is at 16 percent, and wind power is at 12 percent; other energy sources include large hydroelectric at 8 percent, natural gas at 16 percent, nuclear at 8 percent and unspecified sources at 33 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."[30]

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

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

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

[30] 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).[31,32] 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.[33] 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.[34]

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.[35]

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.[36]

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

[32] 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

[33] 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

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

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

[36] 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.

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Intermodal Surface transportation Efficiency Act of 1991 (ISTEA)

The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) promoted the development of inter-modal 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.[37]

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.

California Building Standards Code (Title 24)

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[37] 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

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.[38]

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.

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[38] 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 February 2023 and mid-July 2025 and be completed in one phase.[39] Staging of construction vehicles and equipment will occur on-site. The approximately 29.5 month schedule is relatively short and the project site is approximately 64.54 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),[40] 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 67 single-family residential dwelling units, which, using CalEEMod default estimates, would total approximately 120,600 square feet. Based on Table 22, the total power cost of the on-site electricity usage during the construction of the proposed project is estimated to be approximately $8,253.86.

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:

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[39] The Project Phasing Description (July 8, 2021) shows that the project is to be completed in two phases; however, to be conservative and consistent with the TIA completed for the proposed project, it was modeled as being completed in one phase. The construction timeline for each construction phase was based on the total timeline for the proposed project (Phases 1 and 2 combined) provided in the Project Phasing Description.

[40] Pray, Richard. 2017 National Construction Estimator. Carlsbad : Craftsman Book Company, 2017.

- Construction schedule of approximately 29.5 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/day (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 23 shows the results of the analysis of construction equipment.

As presented in Table 23, project construction activities would consume an estimated 129,308 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 all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated VMT, the construction worker trips would generate an estimated 6,173,574 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 2017 EMFAC model (see Appendix D for details). An aggregate fuel efficiency of 31.82 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. Table 24 shows that an estimated 194,016 gallons of fuel would be consumed for construction worker trips.

Construction Vendor/Hauling Fuel Estimates

Tables 25 and 26 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 1,084,169 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 9.58 mpg for medium heavy-duty trucks and 7.14 for heavy heavy duty trucks (see Appendix D for details). Tables 25 and 26 show that an estimated 113,170 gallons of fuel would be consumed for vendor and hauling trips.

Construction Energy Efficiency/Conservation Measures

Construction equipment used over the approximately 29.5-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 14.7 miles and 3- 4-axle trucks were assumed to travel an average of 8.7 miles.[41] The project includes the development of the site with residential uses; therefore, in order to present a worst-case scenario, it was assumed that vehicles would operate 365 days per year. Table 27 shows the estimated annual fuel consumption for all classes of vehicles from autos to heavy-heavy trucks.[42]

The proposed project would generate 632 trips per day. The vehicle fleet mix was used from the CalEEMod output. Table 27 shows that an estimated 118,198 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 residential 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 billion gallons of diesel and 15.1 billion gallons of gasoline in 2015.[43,44] Therefore, the increase in fuel consumption from the proposed project is insignificant in comparison to the State's demand. Therefore, project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

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[41] CalEEMod default distance for H-W (home-work) or C-W (commercial-work) is 14.7 miles; 8.7 miles for H-O (home-other) or C-O (commercial-other).

[42] Average fuel economy based on aggregate mileage calculated in EMFAC 2017 for opening year (2025). See Appendix C for EMFAC output.

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

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

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 28.

As shown in Table 28, the estimated electricity demand for the proposed project is approximately 533,632 kWh per year. In 2019, the residential sector of the County of San Bernardino consumed approximately 5,054 million kWh of electricity.[45] In addition, the estimated natural gas consumption for the proposed project is approximately 1,895,220 kBTU per year. In 2019, the residential sector of the County of San Bernardino consumed approximately 275million therms of gas.[46] Therefore, the increase in both electricity and natural gas demand from the proposed project is insignificant compared to the County's 2019 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 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 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 City of Redlands CAP.

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

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 a residential project that is not proposing any additional features that would require a larger energy demand than other residential projects of similar scale and configuration. The project land uses are consistent with the General Plan designations, and therefore, 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 residential uses and will not have any long-term effects on an energy provider's future energy development or future energy conservation strategies.

Table 20
Total Electricity System Power (California 2019)

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	248	0.12%	219	7,765	7,985	10.34%	8,233	2.96%
Natural Gas	86,136	42.97%	62	8,859	8,921	11.55%	95,057	34.23%
Nuclear	16,163	8.06%	39	8,743	8,782	11.37%	24,945	8.98%
Oil	36	0.02%	0	0	0	0.00%	36	0.01%
Other (Petroleum Coke/Waste Heat)	411	0.20%	0	11	11	0.01%	422	0.15%
Large Hydro	33,145	16.53%	6,387	1,071	7,458	9.66%	40,603	14.62%
Unspecified Sources of Power	0	0.00%	6,609	13,767	20,376	26.38%	20,376	7.34%
Renewables	64,336	32.09%	10,615	13,081	23,696	30.68%	88,032	31.70%
Biomass	5,851	2.92%	903	33	936	1.21%	6,787	2.44%
Geothermal	10,943	5.46%	99	2,218	2,318	3.00%	13,260	4.77%
Somall Hydro	5,349	2.67%	292	4	296	0.38%	5,646	2.03%
Solar	28,513	14.22%	282	5,295	5,577	7.22%	34,090	12.28%
Wind	13,680	6.82%	9,038	5,531	14,569	18.87%	28,249	10.17%
Total	200,475	100.00%	23,930	53,299	77,229	100.00%	277,704	100.00%

Notes:

(1)   Source: California Energy Commission. 2019 Total System electric Generation. https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2019-total-system-electric-generation

Table 21
SCE 2019 Power Content Mix

Energy Resources	2019 SCE Power Mix
Eligible Renewable	35%
Biomass & Biowaste	1%
Geothermal	6%
Eligible Hydroelectric	1%
Solar	16%
Wind	12%
Coal	0%
Large Hydroelectric	8%
Natural Gas	16%
Nuclear	8%
Other	0%
Unspecified Sources of power*	33%
Total	100%

Notes:

(1) https://www.sce.com/sites/default/files/inline-files/SCE_2019PowerContentLabel.pdf

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

Table 22
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	120.600	29.5	$8,253.86

Notes:

(1) Proposed project is 67 single-family dweling units, the estimated total default square footage given in CalEEMod of 120,600 square feet was used to estimate the total project construction cost.

Table 23
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]
Grading	64	Excavator	3	8	158	0.38	1441	4985
	64	Graders	2	8	187	0.41	1,227	4,244
	64	Rubber Tired Dozers	2	8	247	0.4	1,581	5,469
	64	Tractors/Loaders/Backhoes	2	8	97	0.37	574	1,987
Building Construction	502	Cranes	2	7	231	0.29	938	25,449
	502	Forklifts	4	8	89	0.2	570	15,456
	502	Generator Sets	2	8	84	0.74	995	26,988
	502	Tractors/Loaders/Backhoes	4	7	97	0.37	1,005	27,269
	502	Welders	2	8	46	0.45	331	8,987
Paving	66	Pavers	2	8	130	0.42	874	3,117
	66	Paving Equipment	2	8	132	0.36	760	2,712
	66	Rollers	2	8	80	0.38	486	1,735
Architectural Coating	75	Air Compressors	1	6	78	0.48	225	911
CONSTRUCTION FUEL DEMAND (gallons of diesel fuel)								129,308

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 24
Construction Worker Fuel Consumption Estimates

Phase	Number of Days	Worker Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Grading	64	28	14.7	26,342	31.82	828
Building Construction	502	807	14.7	5,955,176	31.82	187,152
Paving	66	15	14.7	14,553	31.82	457
Architectural Coating	75	161	14.7	177,503	31.82	5,578
Total Construction Worker Fuel Consumption						194,016

Notes:

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

Table 25

Construction Vendor Fuel Consumption Estimates (MHD Trucks)[1]

Phase	Number of Days	Vendor Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Grading	64	0	6.9	0	9.58	0
Building Construction	502	313	6.9	1,084,169	9.58	113,170
Paving	66	0	6.9	0	9.58	0
Architectural Coating	75	0	6.9	0	9.58	0
Total Construction Vendor Fuel Consumption						113,170

Notes:

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

Table 26
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)
Grading	64	0	20	0	7.14	0
Building Construction	502	0	20	0	7.14	0
Paving	66	0	20	0	7.14	0
Architectural Coating	75	0	20	0	7.14	0
Total Construction Hauling Fuel Consumption						0

Notes:

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

Table 27
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	343	14.7	5,042	33.59	150.11	54,789
Light Truck	Automobile	36	14.7	529	28.54	18.54	6,768
Light Truck	Automobile	109	14.7	1,602	27.37	58.54	21,368
Medium Truck	Automobile	85	14.7	1,250	22.2	56.28	20,544
Light Heavy Truck	2-Axle Truck	16	14.7	235	14.37	16.37	5,974
Light Heavy Truck 10,000 lbs +	2-Axle Truck	4	14.7	59	14.75	3.99	1,455
Medium Heavy Truck	3-Axle Truck	8	8.7	70	9.92	7.02	2,561
Heavy Heavy Truck	4-Axle Truck	11	8.7	96	7.37	12.99	4,740
Total		632	--	8,882	12.38	323.83	--
Total Annual Fuel Consumption							118,198

Notes:

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

Table 28
Project Annual Operational Energy Demand Summary

Natural Gas Demand	kBTU/year[1]
Single Family Housing	1,895,220
Total	1,895,220

Electricity Demand	kWh/year
Single Family Housing	533,632
Total	533,632

Notes:

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

6. EMISSIONS REDUCTION MEASURES

CONSTRUCTION MEASURES

Adherence to SCAQMD Rule 403 is required and the project will be required to obtain and prepare a Fugitive Dust Control Plan.

No construction mitigation is required.

OPERATIONAL MEASURES

Mitigation Measure 1. Residential dwelling units within 950 feet of the I-10 freeway shall be required to install high efficiency Minimum Efficiency Reporting Value (MERV) filters of MERV 13 or better as indicated by the American Society of Heating Refrigerating and Air Conditioning Engineers ASHRAE) Standard 52.2, in the intake of ventilation systems. Heating, air conditioning and ventilation (HVAC) systems shall be installed with a fan unit power designed to force air through the MERV 13 filter. To ensure long-term maintenance and replacement of the MERV 13 filters, the following shall occur: i) The developer shall provide notification to all affected future residents of the project site of the potential health risk from the I-10 freeway for all affected dwelling units, ii) the property owner shall inform residents of increased risk of exposure to diesel particulates from the freeway when windows are open and when outside.

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 Redlands

2017   City of Redlands General Plan 2035. December 5.
2017   City of Redlands Climate Action Plan. December 5.

Ganddini Group, Inc.

2021   Terracina at Redlands (TTM 20320) Traffic Impact Analysis. July 28.

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

2016   2016-2040 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

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

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

19208 Terracina at Redlands

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.61	Acre	14.61	636,411.60	0
Other Non-Asphalt Surfaces	28.20	Acre	28.20	1,228,392.00	0
Single Family Housing	67.00	Dwelling Unit	21.75	120,600.00	192

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2025

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 - 64.56 gross ac w/ 67 SFD, 28.2 ac open space, & remainder (~14.61 ac) paving of on-site roadways.

Construction Phase - Consistent w/ TIA, assumed one phase. Per phasing provided, grading ~2-3 months (entire site), building construction ~26 months, paving ~3 months. CalEEmod defautl used for coatings.

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~55%; therefore, ~55% more equipment added to CalEEMod defaults.

Off-road Equipment - CalEEMod default construction timing for grading reduced by ~42%; therefore, ~42% more equipment added to CalEEMod defaults.

Off-road Equipment -

Grading - Site anticipated to balance.

Vehicle Trips - TIA, 9.44 trips/DU/day.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

Sequestration - Landscape plans, ~505 new trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 67 DU/64.56 ac = ~1 DU/ac. Site is ~2.57 miles SW downtown Redlands. Sidewalks on/off-site.

Water Mitigation - Per CalGreen Standards, 20% indoor water reduction. Water-efficient irrigation systems.

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

Fleet Mix -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	502.00
tblConstructionPhase	NumDays	110.00	64.00
tblConstructionPhase	NumDays	75.00	66.00
tblFireplaces	NumberGas	56.95	60.30
tblFireplaces	NumberWood	3.35	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	505.00
tblVehicleTrips	ST_TR	9.54	9.44
tblVehicleTrips	SU_TR	8.55	9.44
tblWoodstoves	NumberCatalytic	3.35	0.00
tblWoodstoves	NumberNoncatalytic	3.35	0.00

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

2.0 Emissions Summary

19208 Terracina at Redlands - San Bernardino-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					
2023	6.1975	47.9105	61.3332	0.1820	16.5991	1.9735	18.5727	7.1615	1.8156	8.9771	0.0000	18,538.50 35	18,538.50 35	2.5875	1.0810	18,893.20 70
2024	5.7922	35.3528	59.0131	0.1788	11.0257	1.1323	12.1580	2.9697	1.0700	4.0397	0.0000	18,279.51 25	18,279.51 25	1.2725	1.0545	18,625.55 68
2025	19.2374	33.4850	56.7662	0.1751	11.0256	0.9947	12.0203	2.9697	0.9399	3.9095	0.0000	17,966.15 79	17,966.15 79	1.2432	1.0246	18,302.55 41
Maximum	**19.2374**	**47.9105**	**61.3332**	**0.1820**	**16.5991**	**1.9735**	**18.5727**	**7.1615**	**1.8156**	**8.9771**	**0.0000**	**18,538.50 35**	**18,538.50 35**	**2.5875**	**1.0810**	**18,893.20 70**

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					
2023	6.1975	47.9105	61.3332	0.1820	11.0257	1.9735	12.3009	2.9697	1.8156	4.6593	0.0000	18,538.50 35	18,538.50 35	2.5875	1.0810	18,893.20 70
2024	5.7922	35.3528	59.0131	0.1788	11.0257	1.1323	12.1580	2.9697	1.0700	4.0397	0.0000	18,279.51 25	18,279.51 25	1.2725	1.0545	18,625.55 68
2025	19.2374	33.4850	56.7662	0.1751	11.0256	0.9947	12.0203	2.9697	0.9399	3.9095	0.0000	17,966.15 79	17,966.15 79	1.2432	1.0246	18,302.55 41
Maximum	**19.2374**	**47.9105**	**61.3332**	**0.1820**	**11.0257**	**1.9735**	**12.3009**	**2.9697**	**1.8156**	**4.6593**	**0.0000**	**18,538.50 35**	**18,538.50 35**	**2.5875**	**1.0810**	**18,893.20 70**

19208 Terracina at Redlands - San Bernardino-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	14.42	0.00	14.67	32.00	0.00	25.51	0.00	0.00	0.00	0.00	0.00	0.00

19208 Terracina at Redlands - San Bernardino-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	3.6805	1.0639	5.9524	6.6800e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307
Energy	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
Mobile	1.9976	2.5260	19.4505	0.0440	4.5634	0.0331	4.5965	1.2170	0.0309	1.2480		4,592.3166	4,592.3166	0.2297	0.2040	4,658.8363
Total	**5.7341**	**4.0684**	**25.6065**	**0.0537**	**4.5634**	**0.1833**	**4.7467**	**1.2170**	**0.1812**	**1.3982**	**0.0000**	**6,490.0904**	**6,490.0904**	**0.2755**	**0.2386**	**6,568.0673**

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	3.6805	1.0639	5.9524	6.6800e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307
Energy	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
Mobile	1.8911	2.2772	17.3978	0.0387	3.9984	0.0293	4.0277	1.0664	0.0274	1.0937		4,037.4275	4,037.4275	0.2091	0.1834	4,097.2978
Total	**5.6276**	**3.8196**	**23.5538**	**0.0484**	**3.9984**	**0.1795**	**4.1779**	**1.0664**	**0.1776**	**1.2440**	**0.0000**	**5,935.2013**	**5,935.2013**	**0.2548**	**0.2180**	**6,006.5288**

19208 Terracina at Redlands - San Bernardino-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	1.86	6.11	8.02	9.89	12.38	2.07	11.98	12.38	1.96	11.03	0.00	8.55	8.55	7.49	8.63	8.55

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	2/1/2023	5/1/2023	5	64	
2	Building Construction	Building Construction	5/2/2023	4/2/2025	5	502	
3	Paving	Paving	4/3/2025	7/3/2025	5	66	
4	Architectural Coating	Architectural Coating	4/3/2025	7/16/2025	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 256

Acres of Paving: 42.81

Residential Indoor: 244,215; Residential Outdoor: 81,405; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 111,888 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	3	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	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	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	2	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
Grading	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	807.00	313.00	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	161.00	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

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.2 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					16.2862	0.0000	16.2862	7.0785	0.0000	7.0785			0.0000			0.0000
Off-Road	4.5785	47.8444	36.1079	0.0824		1.9720	1.9720		1.8142	1.8142		7,979.4392	7,979.4392	2.5807		8,043.9570
Total	**4.5785**	**47.8444**	**36.1079**	**0.0824**	**16.2862**	**1.9720**	**18.2581**	**7.0785**	**1.8142**	**8.8927**		**7,979.4392**	**7,979.4392**	**2.5807**		**8,043.9570**

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	0.1095	0.0661	1.0559	2.8000e-003	0.3130	1.5500e-003	0.3145	0.0830	1.4200e-003	0.0844		286.0672	286.0672	6.8300e-003	6.7300e-003	288.2426
Total	**0.1095**	**0.0661**	**1.0559**	**2.8000e-003**	**0.3130**	**1.5500e-003**	**0.3145**	**0.0830**	**1.4200e-003**	**0.0844**		**286.0672**	**286.0672**	**6.8300e-003**	**6.7300e-003**	**288.2426**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.2 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					6.3516	0.0000	6.3516	2.7606	0.0000	2.7606			0.0000			0.0000
Off-Road	4.5785	47.8444	36.1079	0.0824		1.9720	1.9720		1.8142	1.8142	0.0000	7,979.4392	7,979.4392	2.5807		8,043.9570
Total	4.5785	47.8444	36.1079	0.0824	6.3516	1.9720	8.3236	2.7606	1.8142	4.5748	0.0000	7,979.4392	7,979.4392	2.5807		8,043.9570

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	0.1095	0.0661	1.0559	2.8000e-003	0.3130	1.5500e-003	0.3145	0.0830	1.4200e-003	0.0844		286.0672	286.0672	6.8300e-003	6.7300e-003	288.2426
Total	0.1095	0.0661	1.0559	2.8000e-003	0.3130	1.5500e-003	0.3145	0.0830	1.4200e-003	0.0844		286.0672	286.0672	6.8300e-003	6.7300e-003	288.2426

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.3 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	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857		4,286.5993	4,286.5993	0.9493		4,310.3306
Total	**2.6756**	**24.1630**	**26.2936**	**0.0454**		**1.1482**	**1.1482**		**1.0857**	**1.0857**		**4,286.5993**	**4,286.5993**	**0.9493**		**4,310.3306**

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	0.3664	10.9787	4.6068	0.0560	2.0053	0.0825	2.0878	0.5774	0.0789	0.6564		6,007.0391	6,007.0391	0.1570	0.8871	6,275.3124
Worker	3.1555	1.9041	30.4328	0.0806	9.0204	0.0446	9.0649	2.3922	0.0410	2.4333		8,244.8651	8,244.8651	0.1969	0.1939	8,307.5640
Total	**3.5219**	**12.8827**	**35.0396**	**0.1366**	**11.0257**	**0.1271**	**11.1527**	**2.9697**	**0.1199**	**3.0896**		**14,251.9042**	**14,251.9042**	**0.3539**	**1.0810**	**14,582.8764**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.3 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	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857	0.0000	4,286.5993	4,286.5993	0.9493		4,310.3306
Total	**2.6756**	**24.1630**	**26.2936**	**0.0454**		**1.1482**	**1.1482**		**1.0857**	**1.0857**	**0.0000**	**4,286.5993**	**4,286.5993**	**0.9493**		**4,310.3306**

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	0.3664	10.9787	4.6068	0.0560	2.0053	0.0825	2.0878	0.5774	0.0789	0.6564		6,007.0391	6,007.0391	0.1570	0.8871	6,275.3124
Worker	3.1555	1.9041	30.4328	0.0806	9.0204	0.0446	9.0649	2.3922	0.0410	2.4333		8,244.8651	8,244.8651	0.1969	0.1939	8,307.5640
Total	**3.5219**	**12.8827**	**35.0396**	**0.1366**	**11.0257**	**0.1271**	**11.1527**	**2.9697**	**0.1199**	**3.0896**		**14,251.9042**	**14,251.9042**	**0.3539**	**1.0810**	**14,582.8764**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.3 Building Construction - 2024

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	2.5029	22.5861	26.1427	0.0454		1.0083	1.0083		0.9529	0.9529		4,287.2444	4,287.2444	0.9422		4,310.7982
Total	**2.5029**	**22.5861**	**26.1427**	**0.0454**		**1.0083**	**1.0083**		**0.9529**	**0.9529**		**4,287.2444**	**4,287.2444**	**0.9422**		**4,310.7982**

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	0.3579	11.0763	4.5302	0.0552	2.0053	0.0812	2.0865	0.5774	0.0777	0.6551		5,924.2879	5,924.2879	0.1522	0.8747	6,188.7664
Worker	2.9314	1.6904	28.3402	0.0782	9.0204	0.0428	9.0632	2.3922	0.0394	2.4317		8,067.9803	8,067.9803	0.1782	0.1797	8,125.9922
Total	**3.2893**	**12.7667**	**32.8704**	**0.1335**	**11.0257**	**0.1241**	**11.1497**	**2.9697**	**0.1171**	**3.0868**		**13,992.2682**	**13,992.2682**	**0.3304**	**1.0545**	**14,314.7587**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.3 Building Construction - 2024

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	2.5029	22.5861	26.1427	0.0454		1.0083	1.0083		0.9529	0.9529	0.0000	4,287.2443	4,287.2443	0.9422		4,310.7982
Total	2.5029	22.5861	26.1427	0.0454		1.0083	1.0083		0.9529	0.9529	0.0000	4,287.2443	4,287.2443	0.9422		4,310.7982

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	0.3579	11.0763	4.5302	0.0552	2.0053	0.0812	2.0865	0.5774	0.0777	0.6551		5,924.2879	5,924.2879	0.1522	0.8747	6,188.7664
Worker	2.9314	1.6904	28.3402	0.0782	9.0204	0.0428	9.0632	2.3922	0.0394	2.4317		8,067.9803	8,067.9803	0.1782	0.1797	8,125.9922
Total	3.2893	12.7667	32.8704	0.1335	11.0257	0.1241	11.1497	2.9697	0.1171	3.0868		13,992.2682	13,992.2682	0.3304	1.0545	14,314.7587

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.3 Building Construction - 2025

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	2.3298	20.9659	25.9999	0.0454		0.8728	0.8728		0.8248	0.8248		4,288.2893	4,288.2893	0.9352		4,311.6689
Total	**2.3298**	**20.9659**	**25.9999**	**0.0454**		**0.8728**	**0.8728**		**0.8248**	**0.8248**		**4,288.2893**	**4,288.2893**	**0.9352**		**4,311.6689**

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	0.3510	11.0102	4.4591	0.0542	2.0053	0.0811	2.0864	0.5774	0.0776	0.6550		5,809.1112	5,809.1112	0.1479	0.8573	6,068.2699
Worker	2.7286	1.5089	26.3072	0.0755	9.0204	0.0407	9.0611	2.3922	0.0375	2.4297		7,868.7574	7,868.7574	0.1602	0.1673	7,922.6152
Total	**3.0797**	**12.5191**	**30.7663**	**0.1297**	**11.0256**	**0.1219**	**11.1475**	**2.9697**	**0.1151**	**3.0848**		**13,677.8686**	**13,677.8686**	**0.3080**	**1.0246**	**13,990.8851**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.3 Building Construction - 2025

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	2.3298	20.9659	25.9999	0.0454		0.8728	0.8728		0.8248	0.8248	0.0000	4,288.2893	4,288.2893	0.9352		4,311.6689
Total	2.3298	20.9659	25.9999	0.0454		0.8728	0.8728		0.8248	0.8248	0.0000	4,288.2893	4,288.2893	0.9352		4,311.6689

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	0.3510	11.0102	4.4591	0.0542	2.0053	0.0811	2.0864	0.5774	0.0776	0.6550		5,809.1112	5,809.1112	0.1479	0.8573	6,068.2699
Worker	2.7286	1.5089	26.3072	0.0755	9.0204	0.0407	9.0611	2.3922	0.0375	2.4297		7,868.7574	7,868.7574	0.1602	0.1673	7,922.6152
Total	3.0797	12.5191	30.7663	0.1297	11.0256	0.1219	11.1475	2.9697	0.1151	3.0848		13,677.8686	13,677.8686	0.3080	1.0246	13,990.8851

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.4 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.5800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4951**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

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	0.0507	0.0281	0.4890	1.4000e-003	0.1677	7.6000e-004	0.1684	0.0445	7.0000e-004	0.0452		146.2594	146.2594	2.9800e-003	3.1100e-003	147.2605
Total	**0.0507**	**0.0281**	**0.4890**	**1.4000e-003**	**0.1677**	**7.6000e-004**	**0.1684**	**0.0445**	**7.0000e-004**	**0.0452**		**146.2594**	**146.2594**	**2.9800e-003**	**3.1100e-003**	**147.2605**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.4 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.5800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4951**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

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	0.0507	0.0281	0.4890	1.4000e-003	0.1677	7.6000e-004	0.1684	0.0445	7.0000e-004	0.0452		146.2594	146.2594	2.9800e-003	3.1100e-003	147.2605
Total	**0.0507**	**0.0281**	**0.4890**	**1.4000e-003**	**0.1677**	**7.6000e-004**	**0.1684**	**0.0445**	**7.0000e-004**	**0.0452**		**146.2594**	**146.2594**	**2.9800e-003**	**3.1100e-003**	**147.2605**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.5 Architectural Coating - 2025

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	16.9763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**17.1472**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.5444	0.3010	5.2484	0.0151	1.7996	8.1300e-003	1.8077	0.4773	7.4800e-003	0.4847		1,569.8512	1,569.8512	0.0320	0.0334	1,580.5961
Total	**0.5444**	**0.3010**	**5.2484**	**0.0151**	**1.7996**	**8.1300e-003**	**1.8077**	**0.4773**	**7.4800e-003**	**0.4847**		**1,569.8512**	**1,569.8512**	**0.0320**	**0.0334**	**1,580.5961**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

3.5 Architectural Coating - 2025

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	16.9763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**17.1472**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.5444	0.3010	5.2484	0.0151	1.7996	8.1300e-003	1.8077	0.4773	7.4800e-003	0.4847		1,569.8512	1,569.8512	0.0320	0.0334	1,580.5961
Total	**0.5444**	**0.3010**	**5.2484**	**0.0151**	**1.7996**	**8.1300e-003**	**1.8077**	**0.4773**	**7.4800e-003**	**0.4847**		**1,569.8512**	**1,569.8512**	**0.0320**	**0.0334**	**1,580.5961**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

Increase Density

Improve Destination Accessibility

Improve Pedestrian Network

	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	1.8911	2.2772	17.3978	0.0387	3.9984	0.0293	4.0277	1.0664	0.0274	1.0937		4,037.4275	4,037.4275	0.2091	0.1834	4,097.2978
Unmitigated	1.9976	2.5260	19.4505	0.0440	4.5634	0.0331	4.5965	1.2170	0.0309	1.2480		4,592.3166	4,592.3166	0.2297	0.2040	4,658.8363

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	632.48	632.48	632.48	2,161,280	1,893,686
Total	632.48	632.48	632.48	2,161,280	1,893,686

4.3 Trip Type Information

19208 Terracina at Redlands - San Bernardino-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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Single Family Housing	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

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	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
NaturalGas Unmitigated	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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			
Other 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
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
Single Family Housing	5192.4	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
Total		**0.0560**	**0.4785**	**0.2036**	**3.0500e-003**		**0.0387**	**0.0387**		**0.0387**	**0.0387**		**610.8703**	**610.8703**	**0.0117**	**0.0112**	**614.5004**

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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					
Other 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
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
Single Family Housing	5.1924	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
Total		**0.0560**	**0.4785**	**0.2036**	**3.0500e-003**		**0.0387**	**0.0387**		**0.0387**	**0.0387**		**610.8703**	**610.8703**	**0.0117**	**0.0112**	**614.5004**

6.0 Area Detail

6.1 Mitigation Measures Area

19208 Terracina at Redlands - San Bernardino-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	3.6805	1.0639	5.9524	6.6800e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307
Unmitigated	3.6805	1.0639	5.9524	6.6800e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307

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	0.3488					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1171	1.0003	0.4257	6.3800e-003		0.0809	0.0809		0.0809	0.0809	0.0000	1,276.9412	1,276.9412	0.0245	0.0234	1,284.5294
Landscaping	0.1662	0.0637	5.5267	2.9000e-004		0.0307	0.0307		0.0307	0.0307			9.9624	9.9624	9.5600e-003	10.2013
Total	3.6805	1.0639	5.9524	6.6700e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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	0.3488					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1171	1.0003	0.4257	6.3800e-003		0.0809	0.0809		0.0809	0.0809	0.0000	1,276.9412	1,276.9412	0.0245	0.0234	1,284.5294
Landscaping	0.1662	0.0637	5.5267	2.9000e-004		0.0307	0.0307		0.0307	0.0307		9.9624	9.9624	9.5600e-003		10.2013
Total	**3.6805**	**1.0639**	**5.9524**	**6.6700e-003**		**0.1115**	**0.1115**		**0.1115**	**0.1115**	**0.0000**	**1,286.9036**	**1,286.9036**	**0.0340**	**0.0234**	**1,294.7307**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

19208 Terracina at Redlands - San Bernardino-South Coast County, Summer

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

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

19208 Terracina at Redlands

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.61	Acre	14.61	636,411.60	0
Other Non-Asphalt Surfaces	28.20	Acre	28.20	1,228,392.00	0
Single Family Housing	67.00	Dwelling Unit	21.75	120,600.00	192

1.2 Other Project Characteristics

Urbanization Urban **Wind Speed (m/s)** 2.2 **Precipitation Freq (Days)** 32

Climate Zone 10 **Operational Year** 2025

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 - 64.56 gross ac w/ 67 SFD, 28.2 ac open space, & remainder (~14.61 ac) paving of on-site roadways.

Construction Phase - Consistent w/ TIA, assumed one phase. Per phasing provided, grading ~2-3 months (entire site), building construction ~26 months, paving ~3 months. CalEEmod defautl used for coatings.

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~55%; therefore, ~55% more equipment added to CalEEMod defaults.

Off-road Equipment - CalEEMod default construction timing for grading reduced by ~42%; therefore, ~42% more equipment added to CalEEMod defaults.

Off-road Equipment -

Grading - Site anticipated to balance.

Vehicle Trips - TIA, 9.44 trips/DU/day.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

Sequestration - Landscape plans, ~505 new trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 67 DU/64.56 ac = ~1 DU/ac. Site is ~2.57 miles SW downtown Redlands. Sidewalks on/off-site.

Water Mitigation - Per CalGreen Standards, 20% indoor water reduction. Water-efficient irrigation systems.

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

Fleet Mix -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	502.00
tblConstructionPhase	NumDays	110.00	64.00
tblConstructionPhase	NumDays	75.00	66.00
tblFireplaces	NumberGas	56.95	60.30
tblFireplaces	NumberWood	3.35	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	505.00
tblVehicleTrips	ST_TR	9.54	9.44
tblVehicleTrips	SU_TR	8.55	9.44
tblWoodstoves	NumberCatalytic	3.35	0.00
tblWoodstoves	NumberNoncatalytic	3.35	0.00

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

2.0 Emissions Summary

19208 Terracina at Redlands - San Bernardino-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					
2023	6.0561	47.9139	56.0903	0.1745	16.5991	1.9735	18.5727	7.1615	1.8156	8.9771	0.0000	17,777.8443	17,777.8443	2.5876	1.0899	18,135.2011
2024	5.6659	36.0607	54.1654	0.1716	11.0257	1.1326	12.1583	2.9697	1.0703	4.0400	0.0000	17,536.9898	17,536.9898	1.2719	1.0629	17,885.5231
2025	19.2183	34.1802	52.3031	0.1682	11.0256	0.9950	12.0206	2.9697	0.9402	3.9098	0.0000	17,243.8969	17,243.8969	1.2429	1.0325	17,582.6441
Maximum	**19.2183**	**47.9139**	**56.0903**	**0.1745**	**16.5991**	**1.9735**	**18.5727**	**7.1615**	**1.8156**	**8.9771**	**0.0000**	**17,777.8443**	**17,777.8443**	**2.5876**	**1.0899**	**18,135.2011**

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					
2023	6.0561	47.9139	56.0903	0.1745	11.0257	1.9735	12.3013	2.9697	1.8156	4.6593	0.0000	17,777.8443	17,777.8443	2.5876	1.0899	18,135.2011
2024	5.6659	36.0607	54.1654	0.1716	11.0257	1.1326	12.1583	2.9697	1.0703	4.0400	0.0000	17,536.9898	17,536.9898	1.2719	1.0629	17,885.5231
2025	19.2183	34.1802	52.3031	0.1682	11.0256	0.9950	12.0206	2.9697	0.9402	3.9098	0.0000	17,243.8969	17,243.8969	1.2429	1.0325	17,582.6441
Maximum	**19.2183**	**47.9139**	**56.0903**	**0.1745**	**11.0257**	**1.9735**	**12.3013**	**2.9697**	**1.8156**	**4.6593**	**0.0000**	**17,777.8443**	**17,777.8443**	**2.5876**	**1.0899**	**18,135.2011**

19208 Terracina at Redlands - San Bernardino-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	14.42	0.00	14.67	32.00	0.00	25.51	0.00	0.00	0.00	0.00	0.00	0.00

19208 Terracina at Redlands - San Bernardino-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	3.6805	1.0639	5.9524	6.6800e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307
Energy	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
Mobile	1.7400	2.6841	17.4013	0.0408	4.5634	0.0331	4.5965	1.2170	0.0310	1.2480		4,261.5500	4,261.5500	0.2350	0.2089	4,329.6894
Total	5.4765	4.2265	23.5573	0.0505	4.5634	0.1833	4.7467	1.2170	0.1812	1.3982	0.0000	6,159.3238	6,159.3238	0.2808	0.2436	6,238.9204

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	3.6805	1.0639	5.9524	6.6800e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307
Energy	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
Mobile	1.6351	2.4200	15.6587	0.0359	3.9984	0.0293	4.0277	1.0664	0.0274	1.0938		3,747.8473	3,747.8473	0.2149	0.1879	3,809.2232
Total	5.3716	3.9625	21.8146	0.0456	3.9984	0.1795	4.1779	1.0664	0.1776	1.2440	0.0000	5,645.6211	5,645.6211	0.2607	0.2225	5,718.4542

19208 Terracina at Redlands - San Bernardino-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	1.92	6.25	7.40	9.74	12.38	2.07	11.98	12.38	1.96	11.03	0.00	8.34	8.34	7.15	8.63	8.34

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	2/1/2023	5/1/2023	5	64	
2	Building Construction	Building Construction	5/2/2023	4/2/2025	5	502	
3	Paving	Paving	4/3/2025	7/3/2025	5	66	
4	Architectural Coating	Architectural Coating	4/3/2025	7/16/2025	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 256

Acres of Paving: 42.81

Residential Indoor: 244,215; Residential Outdoor: 81,405; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 111,888 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	3	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	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	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	2	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
Grading	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	807.00	313.00	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	161.00	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

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.2 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					16.2862	0.0000	16.2862	7.0785	0.0000	7.0785			0.0000			0.0000
Off-Road	4.5785	47.8444	36.1079	0.0824		1.9720	1.9720		1.8142	1.8142		7,979.4392	7,979.4392	2.5807		8,043.9570
Total	**4.5785**	**47.8444**	**36.1079**	**0.0824**	**16.2862**	**1.9720**	**18.2581**	**7.0785**	**1.8142**	**8.8927**		**7,979.4392**	**7,979.4392**	**2.5807**		**8,043.9570**

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	0.1055	0.0695	0.8691	2.5300e-003	0.3130	1.5500e-003	0.3145	0.0830	1.4200e-003	0.0844		259.1696	259.1696	6.8400e-003	6.9400e-003	261.4097
Total	**0.1055**	**0.0695**	**0.8691**	**2.5300e-003**	**0.3130**	**1.5500e-003**	**0.3145**	**0.0830**	**1.4200e-003**	**0.0844**		**259.1696**	**259.1696**	**6.8400e-003**	**6.9400e-003**	**261.4097**

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.2 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					6.3516	0.0000	6.3516	2.7606	0.0000	2.7606			0.0000			0.0000
Off-Road	4.5785	47.8444	36.1079	0.0824		1.9720	1.9720		1.8142	1.8142	0.0000	7,979.4392	7,979.4392	2.5807		8,043.9570
Total	**4.5785**	**47.8444**	**36.1079**	**0.0824**	**6.3516**	**1.9720**	**8.3236**	**2.7606**	**1.8142**	**4.5748**	**0.0000**	**7,979.4392**	**7,979.4392**	**2.5807**		**8,043.9570**

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	0.1055	0.0695	0.8691	2.5300e-003	0.3130	1.5500e-003	0.3145	0.0830	1.4200e-003	0.0844		259.1696	259.1696	6.8400e-003	6.9400e-003	261.4097
Total	**0.1055**	**0.0695**	**0.8691**	**2.5300e-003**	**0.3130**	**1.5500e-003**	**0.3145**	**0.0830**	**1.4200e-003**	**0.0844**		**259.1696**	**259.1696**	**6.8400e-003**	**6.9400e-003**	**261.4097**

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.3 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	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857		4,286.5993	4,286.5993	0.9493		4,310.3306
Total	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857		4,286.5993	4,286.5993	0.9493		4,310.3306

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	0.3408	11.5963	4.7489	0.0562	2.0053	0.0828	2.0882	0.5774	0.0793	0.6567		6,021.6068	6,021.6068	0.1558	0.8898	6,290.6700
Worker	3.0397	2.0020	25.0478	0.0730	9.0204	0.0446	9.0649	2.3922	0.0410	2.4333		7,469.6383	7,469.6383	0.1972	0.2001	7,534.2005
Total	3.3805	13.5983	29.7967	0.1291	11.0257	0.1274	11.1531	2.9697	0.1203	3.0899		13,491.2450	13,491.2450	0.3529	1.0899	13,824.8705

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.3 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	2.6756	24.1630	26.2936	0.0454		1.1482	1.1482		1.0857	1.0857	0.0000	4,286.5993	4,286.5993	0.9493		4,310.3306
Total	**2.6756**	**24.1630**	**26.2936**	**0.0454**		**1.1482**	**1.1482**		**1.0857**	**1.0857**	**0.0000**	**4,286.5993**	**4,286.5993**	**0.9493**		**4,310.3306**

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	0.3408	11.5963	4.7489	0.0562	2.0053	0.0828	2.0882	0.5774	0.0793	0.6567		6,021.6068	6,021.6068	0.1558	0.8898	6,290.6700
Worker	3.0397	2.0020	25.0478	0.0730	9.0204	0.0446	9.0649	2.3922	0.0410	2.4333		7,469.6383	7,469.6383	0.1972	0.2001	7,534.2005
Total	**3.3805**	**13.5983**	**29.7967**	**0.1291**	**11.0257**	**0.1274**	**11.1531**	**2.9697**	**0.1203**	**3.0899**		**13,491.2450**	**13,491.2450**	**0.3529**	**1.0899**	**13,824.8705**

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.3 Building Construction - 2024

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	2.5029	22.5861	26.1427	0.0454		1.0083	1.0083		0.9529	0.9529		4,287.2444	4,287.2444	0.9422		4,310.7982
Total	2.5029	22.5861	26.1427	0.0454		1.0083	1.0083		0.9529	0.9529		4,287.2444	4,287.2444	0.9422		4,310.7982

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	0.3323	11.6980	4.6711	0.0554	2.0053	0.0816	2.0869	0.5774	0.0780	0.6554		5,938.7672	5,938.7672	0.1510	0.8774	6,204.0171
Worker	2.8307	1.7766	23.3515	0.0709	9.0204	0.0428	9.0632	2.3922	0.0394	2.4317		7,310.9783	7,310.9783	0.1787	0.1854	7,370.7078
Total	3.1631	13.4747	28.0227	0.1263	11.0257	0.1244	11.1500	2.9697	0.1174	3.0871		13,249.7454	13,249.7454	0.3297	1.0629	13,574.7249

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.3 Building Construction - 2024

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	2.5029	22.5861	26.1427	0.0454		1.0083	1.0083		0.9529	0.9529	0.0000	4,287.2443	4,287.2443	0.9422		4,310.7982
Total	2.5029	22.5861	26.1427	0.0454		1.0083	1.0083		0.9529	0.9529	0.0000	4,287.2443	4,287.2443	0.9422		4,310.7982

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	0.3323	11.6980	4.6711	0.0554	2.0053	0.0816	2.0869	0.5774	0.0780	0.6554		5,938.7672	5,938.7672	0.1510	0.8774	6,204.0171
Worker	2.8307	1.7766	23.3515	0.0709	9.0204	0.0428	9.0632	2.3922	0.0394	2.4317		7,310.9783	7,310.9783	0.1787	0.1854	7,370.7078
Total	3.1631	13.4747	28.0227	0.1263	11.0257	0.1244	11.1500	2.9697	0.1174	3.0871		13,249.7454	13,249.7454	0.3297	1.0629	13,574.7249

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.3 Building Construction - 2025

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	2.3298	20.9659	25.9999	0.0454		0.8728	0.8728		0.8248	0.8248		4,288.2893	4,288.2893	0.9352		4,311.6689
Total	2.3298	20.9659	25.9999	0.0454		0.8728	0.8728		0.8248	0.8248		4,288.2893	4,288.2893	0.9352		4,311.6689

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	0.3254	11.6289	4.5988	0.0543	2.0053	0.0814	2.0867	0.5774	0.0779	0.6553		5,823.4450	5,823.4450	0.1466	0.8599	6,083.3576
Worker	2.6410	1.5854	21.7044	0.0685	9.0204	0.0407	9.0611	2.3922	0.0375	2.4297		7,132.1626	7,132.1626	0.1612	0.1726	7,187.6176
Total	2.9664	13.2143	26.3032	0.1228	11.0256	0.1222	11.1478	2.9697	0.1154	3.0851		12,955.6076	12,955.6076	0.3078	1.0325	13,270.9752

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.3 Building Construction - 2025

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	2.3298	20.9659	25.9999	0.0454		0.8728	0.8728		0.8248	0.8248	0.0000	4,288.2893	4,288.2893	0.9352		4,311.6689
Total	2.3298	20.9659	25.9999	0.0454		0.8728	0.8728		0.8248	0.8248	0.0000	4,288.2893	4,288.2893	0.9352		4,311.6689

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	0.3254	11.6289	4.5988	0.0543	2.0053	0.0814	2.0867	0.5774	0.0779	0.6553		5,823.4450	5,823.4450	0.1466	0.8599	6,083.3576
Worker	2.6410	1.5854	21.7044	0.0685	9.0204	0.0407	9.0611	2.3922	0.0375	2.4297		7,132.1626	7,132.1626	0.1612	0.1726	7,187.6176
Total	2.9664	13.2143	26.3032	0.1228	11.0256	0.1222	11.1478	2.9697	0.1154	3.0851		12,955.6076	12,955.6076	0.3078	1.0325	13,270.9752

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.4 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.5800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4951**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

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	0.0491	0.0295	0.4034	1.2700e-003	0.1677	7.6000e-004	0.1684	0.0445	7.0000e-004	0.0452		132.5681	132.5681	3.0000e-003	3.2100e-003	133.5988
Total	**0.0491**	**0.0295**	**0.4034**	**1.2700e-003**	**0.1677**	**7.6000e-004**	**0.1684**	**0.0445**	**7.0000e-004**	**0.0452**		**132.5681**	**132.5681**	**3.0000e-003**	**3.2100e-003**	**133.5988**

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.4 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.5800					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4951**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

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	0.0491	0.0295	0.4034	1.2700e-003	0.1677	7.6000e-004	0.1684	0.0445	7.0000e-004	0.0452		132.5681	132.5681	3.0000e-003	3.2100e-003	133.5988
Total	**0.0491**	**0.0295**	**0.4034**	**1.2700e-003**	**0.1677**	**7.6000e-004**	**0.1684**	**0.0445**	**7.0000e-004**	**0.0452**		**132.5681**	**132.5681**	**3.0000e-003**	**3.2100e-003**	**133.5988**

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.5 Architectural Coating - 2025

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	16.9763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**17.1472**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.5269	0.3163	4.3301	0.0137	1.7996	8.1300e-003	1.8077	0.4773	7.4800e-003	0.4847		1,422.8974	1,422.8974	0.0322	0.0344	1,433.9609
Total	**0.5269**	**0.3163**	**4.3301**	**0.0137**	**1.7996**	**8.1300e-003**	**1.8077**	**0.4773**	**7.4800e-003**	**0.4847**		**1,422.8974**	**1,422.8974**	**0.0322**	**0.0344**	**1,433.9609**

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

3.5 Architectural Coating - 2025

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	16.9763					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**17.1472**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	0.5269	0.3163	4.3301	0.0137	1.7996	8.1300e-003	1.8077	0.4773	7.4800e-003	0.4847		1,422.8974	1,422.8974	0.0322	0.0344	1,433.9609
Total	**0.5269**	**0.3163**	**4.3301**	**0.0137**	**1.7996**	**8.1300e-003**	**1.8077**	**0.4773**	**7.4800e-003**	**0.4847**		**1,422.8974**	**1,422.8974**	**0.0322**	**0.0344**	**1,433.9609**

19208 Terracina at Redlands - San Bernardino-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

Increase Density

Improve Destination Accessibility

Improve Pedestrian Network

	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	1.6351	2.4200	15.6587	0.0359	3.9984	0.0293	4.0277	1.0664	0.0274	1.0938		3,747.8473	3,747.8473	0.2149	0.1879	3,809.2232
Unmitigated	1.7400	2.6841	17.4013	0.0408	4.5634	0.0331	4.5965	1.2170	0.0310	1.2480		4,261.5500	4,261.5500	0.2350	0.2089	4,329.6894

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	632.48	632.48	632.48	2,161,280	1,893,686
Total	632.48	632.48	632.48	2,161,280	1,893,686

4.3 Trip Type Information

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Single Family Housing	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

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	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
NaturalGas Unmitigated	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004

19208 Terracina at Redlands - San Bernardino-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					
Other 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
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
Single Family Housing	5192.4	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
Total		**0.0560**	**0.4785**	**0.2036**	**3.0500e-003**		**0.0387**	**0.0387**		**0.0387**	**0.0387**		**610.8703**	**610.8703**	**0.0117**	**0.0112**	**614.5004**

19208 Terracina at Redlands - San Bernardino-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

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					
Other 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
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
Single Family Housing	5.1924	0.0560	0.4785	0.2036	3.0500e-003		0.0387	0.0387		0.0387	0.0387		610.8703	610.8703	0.0117	0.0112	614.5004
Total		**0.0560**	**0.4785**	**0.2036**	**3.0500e-003**		**0.0387**	**0.0387**		**0.0387**	**0.0387**		**610.8703**	**610.8703**	**0.0117**	**0.0112**	**614.5004**

6.0 Area Detail

6.1 Mitigation Measures Area

19208 Terracina at Redlands - San Bernardino-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	N2O	CO2e
Category						lb/day							lb/day			
Mitigated	3.6805	1.0639	5.9524	6.6800e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307
Unmitigated	3.6805	1.0639	5.9524	6.6800e-003		0.1115	0.1115		0.1115	0.1115	0.0000	1,286.9036	1,286.9036	0.0340	0.0234	1,294.7307

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	0.3488					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1171	1.0003	0.4257	6.3800e-003		0.0809	0.0809		0.0809	0.0809	0.0000	1,276.9412	1,276.9412	0.0245	0.0234	1,284.5294
Landscaping	0.1662	0.0637	5.5267	2.9000e-004		0.0307	0.0307		0.0307	0.0307			9.9624	9.9624	9.5600e-003	10.2013
Total	**3.6805**	**1.0639**	**5.9524**	**6.6700e-003**		**0.1115**	**0.1115**		**0.1115**	**0.1115**	**0.0000**	**1,286.9036**	**1,286.9036**	**0.0340**	**0.0234**	**1,294.7307**

19208 Terracina at Redlands - San Bernardino-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	0.3488					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0484					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1171	1.0003	0.4257	6.3800e-003		0.0809	0.0809		0.0809	0.0809	0.0000	1,276.9412	1,276.9412	0.0245	0.0234	1,284.5294
Landscaping	0.1662	0.0637	5.5267	2.9000e-004		0.0307	0.0307		0.0307	0.0307		9.9624	9.9624	9.5600e-003		10.2013
Total	**3.6805**	**1.0639**	**5.9524**	**6.6700e-003**		**0.1115**	**0.1115**		**0.1115**	**0.1115**	**0.0000**	**1,286.9036**	**1,286.9036**	**0.0340**	**0.0234**	**1,294.7307**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

19208 Terracina at Redlands - San Bernardino-South Coast County, Winter

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

APPENDIX C

AERMOD MODEL PRINTOUTS

19208 Terracina at Redlands

Estimation of DPM Emissions Along the 10 Freeway

Cal Trans Vehicle Traffic - 2019

Segment	Ahead AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Redlands, Wabash Avenue Yucaipa Boulevard for Truck ADTs	155000	20150	134850	87.0%	13.0%	7476	37.1%	1874	9.3%	10801	53.6%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix

	SCAB CalEEMod Fleet Mix	Adjusted Fleet Mix	Daily Trips
LDA	55.23	59.6%	80361
LDT1	4.429	4.8%	6444
LDT2	21.11	22.8%	30716
MDV	11.91	12.9%	17329
Total	92.679	100.0%	134850
LHD1	1.75	75.1%	5617
LHD2	0.579	24.9%	1859
Total	2.329	100.0%	7476
MHDT			1874
HHDT			10801
Total - All Vehicles			155001

Diesel Vehicle Distribution (from URBEMIS: 2025 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.4%	90
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	17.6%	989
LHDT2	40.0%	743
MHDT	80.0%	1499
HHDT	100.0%	10801

Vehicle Speed/1-year Average DPM Emission Factor (2025) from EMFAC2017 for South Coast AB

	Speed (mph)	Emission Factor (g/mi)
LDA	70	0.004164408
LDT1	70	0.139326979
LDT2	70	0.003725823
MDV	60	0.003161293
LHDT1	60	0.015608783
LHDT2	60	0.015765879
MHDT	55	0.010109
HHDT	55	0.023525

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment   1114.4 meters or
                                   0.692 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)		EB	WB
LDA	0.0	0.00E+00			
LDT1	8.7	1.01E-04			
LDT2	0.0	0.00E+00			
MDV	0.0	0.00E+00			
LHDT1	10.7	1.24E-04			
LHDT2	8.1	9.39E-05			
MHDT	10.5	1.21E-04			
HHDT	175.9	2.04E-03			
Total	213.9	2.48E-03		**1.24E-03**	**1.24E-03**

19208 Terracina at Redlands

Estimation of DPM Emissions Along the 10 Freeway

Cal Trans Vehicle Traffic - 2019

Segment	Ahead AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Redlands, Wabash Avenue Yucaipa Boulevard for Truck ADTs	155000	20150	134850	87.0%	13.0%	7476	37.1%	1874	9.3%	10801	53.6%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix

	SCAB CalEEMod Fleet Mix	Adjusted Fleet Mix	Daily Trips
LDA	55.23	59.6%	80361
LDT1	4.429	4.8%	6444
LDT2	21.11	22.8%	30716
MDV	11.91	12.9%	17329
Total	92.679	100.0%	134850
LHD1	1.75	75.1%	5617
LHD2	0.579	24.9%	1859
Total	2.329	100.0%	7476
MHDT			1874
HHDT			10801
Total - All Vehicles			155001

Diesel Vehicle Distribution (from URBEMIS: 2025 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.4%	90
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	17.6%	989
LHDT2	40.0%	743
MHDT	80.0%	1499
HHDT	100.0%	10801

Vehicle Speed/2-year Average DPM Emission Factor (2026 to 2027) from EMFAC2017 for South Coast AB

	Speed (mph)	Emission Factor (g/mi)
LDA	70	0.003031835
LDT1	70	0.095229131
LDT2	70	0.00346121
MDV	60	0.002727943
LHDT1	60	0.014034685
LHDT2	60	0.014960975
MHDT	55	0.010208
HHDT	55	0.023467

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment	1114.4	meters or
	0.692	miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)			
LDA	0.0	0.00E+00			
LDT1	5.9	6.88E-05			
LDT2	0.0	0.00E+00			
MDV	0.0	0.00E+00			
LHDT1	9.6	1.11E-04			
LHDT2	7.7	8.91E-05			
MHDT	10.6	1.23E-04			
HHDT	175.5	2.03E-03			
			EB	WB	
Total	209.3	2.42E-03	**1.21E-03**	**1.21E-03**	

19208 Terracina at Redlands

Estimation of DPM Emissions Along the 10 Freeway

Cal Trans Vehicle Traffic - 2019

Segment	Ahead AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Redlands, Wabash Avenue Yucaipa Boulevard for Truck ADTs	155000	20150	134850	87.0%	13.0%	7476	37.1%	1874	9.3%	10801	53.6%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix

	SCAB CalEEMod Fleet Mix	Adjusted Fleet Mix	Daily Trips
LDA	55.23	59.6%	80361
LDT1	4.429	4.8%	6444
LDT2	21.11	22.8%	30716
MDV	11.91	12.9%	17329
Total	92.679	100.0%	134850
LHD1	1.75	75.1%	5617
LHD2	0.579	24.9%	1859
Total	2.329	100.0%	7476
MHDT			1874
HHDT			10801
Total - All Vehicles			155001

Diesel Vehicle Distribution (from URBEMIS: 2025 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.4%	90
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	17.6%	989
LHDT2	40.0%	743
MHDT	80.0%	1499
HHDT	100.0%	10801

Vehicle Speed/14-year Average DPM Emission Factor (2028 to 2041) from EMFAC2017 for South Coast AB

	Speed (mph)	Emission Factor (g/mi)
LDA	70	0.001149899
LDT1	70	0.009619132
LDT2	70	0.003242716
MDV	60	0.001337376
LHDT1	60	0.008294268
LHDT2	60	0.012232816
MHDT	55	0.010282
HHDT	55	0.022548

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment   1114.4 meters or
                              0.692 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)			
LDA	0.0	0.00E+00			
LDT1	0.6	6.95E-06			
LDT2	0.0	0.00E+00			
MDV	0.0	0.00E+00			
LHDT1	5.7	6.57E-05			
LHDT2	6.3	7.29E-05			
MHDT	10.7	1.24E-04			
HHDT	168.6	1.95E-03			
			EB	WB	
Total	191.8	2.22E-03	**1.11E-03**	**1.11E-03**	

19208 Terracina at Redlands

Estimation of DPM Emissions Along the 10 Freeway

Cal Trans Vehicle Traffic - 2019

Segment	Ahead AADT	Total Trucks	LDA/LDT/MDT	% LDA/LDT/MDT	% Trucks	2 axle	2 axle % Trucks	3 axle	3 axle % Trucks	4+ axle	4+ Axle % Trucks
Redlands, Wabash Avenue Yucaipa Boulevard for Truck ADTs	155000	20150	134850	87.0%	13.0%	7476	37.1%	1874	9.3%	10801	53.6%

Diesel Vehicle Distribution

Vehicle Mix
2 axle trucks = LHDT1 and LHDT2
3 axle trucks = MHDT
4+ axle trucks = HHDT

Adjusted Fleet Mix

	SCAB CalEEMod Fleet Mix	Adjusted Fleet Mix	Daily Trips
LDA	55.23	59.6%	80361
LDT1	4.429	4.8%	6444
LDT2	21.11	22.8%	30716
MDV	11.91	12.9%	17329
Total	92.679	100.0%	134850
LHD1	1.75	75.1%	5617
LHD2	0.579	24.9%	1859
Total	2.329	100.0%	7476
MHDT			1874
HHDT			10801
Total - All Vehicles			155001

Diesel Vehicle Distribution (from URBEMIS: 2025 in SCAQMD)

	% Diesel	Daily Diesel Vehicles
LDA	0.0%	0
LDT1	1.4%	90
LDT2	0.0%	0
MDV	0.0%	0
LHDT1	17.6%	989
LHDT2	40.0%	743
MHDT	80.0%	1499
HHDT	100.0%	10801

Vehicle Speed/14-year Average DPM Emission Factor (2042 to 2055) from EMFAC2017 for South Coast AB

	Speed (mph)	Emission Factor (g/mi)
LDA	70	0.000572728
LDT1	70	0.003442482
LDT2	70	0.00329775
MDV	60	0.000663243
LHDT1	60	0.004460849
LHDT2	60	0.010553487
MHDT	55	0.010028
HHDT	55	0.022173

Vehicle Emissions

Vehicle Emissions = Emission Factor (g/mi) x Mile/Trip x Trip/Day

Length of Roadway Segment   1114.4 meters or
                             0.692 miles

Assumption: over an annual period, traffic is assumed to be uniformly distributed during the day

	Daily Emissions (g/day)	Hourly Emissions (g/sec)		EB		WB
LDA	0.0	0.00E+00				
LDT1	0.2	2.49E-06				
LDT2	0.0	0.00E+00				
MDV	0.0	0.00E+00				
LHDT1	3.1	3.53E-05				
LHDT2	5.4	6.29E-05				
MHDT	10.4	1.20E-04				
HHDT	165.8	1.92E-03				
Total	184.9	2.14E-03		**1.07E-03**		**1.07E-03**

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** Lakes Environmental AERMOD MPI
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** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/11/2021
** File: C:\Lakes\AERMOD View\Terracina at Redlands OY\Terracina at Redlands OY.ADI
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**
**
***************************************
** AERMOD Control Pathway
***************************************
**
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CO STARTING
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   TITLETWO Freeway-related DPM Concentrations OY
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "Terracina at Redlands OY.err"
CO FINISHED
**
***************************************
** AERMOD Source Pathway
***************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** --------------------------------------------------------------
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** LINE VOLUME Source ID = SLINE1
** DESCRSRC EB 10 freeway
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00124
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
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   LOCATION L0000007      VOLUME     486638.551 3766069.146 528.14
   LOCATION L0000008      VOLUME     486642.014 3766067.969 528.26
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   LOCATION L0000011      VOLUME     486652.403 3766064.438 528.55
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   LOCATION L0000015      VOLUME     486666.255 3766059.730 529.16
   LOCATION L0000016      VOLUME     486669.718 3766058.553 529.36
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   LOCATION L0000031      VOLUME     486721.663 3766040.896 531.98
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   LOCATION L0000033      VOLUME     486728.589 3766038.542 532.23
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LOCATION L0000045      VOLUME     486770.145 3766024.417 534.53
LOCATION L0000046      VOLUME     486773.608 3766023.240 534.77
LOCATION L0000047      VOLUME     486777.071 3766022.063 534.99
LOCATION L0000048      VOLUME     486780.534 3766020.886 535.21
LOCATION L0000049      VOLUME     486783.997 3766019.709 535.45
LOCATION L0000050      VOLUME     486787.462 3766018.536 535.70
LOCATION L0000051      VOLUME     486790.934 3766017.387 535.92
LOCATION L0000052      VOLUME     486794.407 3766016.239 536.12
LOCATION L0000053      VOLUME     486797.880 3766015.090 536.31
LOCATION L0000054      VOLUME     486801.352 3766013.941 536.47
LOCATION L0000055      VOLUME     486804.825 3766012.793 536.61
LOCATION L0000056      VOLUME     486808.297 3766011.644 536.74
LOCATION L0000057      VOLUME     486811.770 3766010.495 536.87
LOCATION L0000058      VOLUME     486815.242 3766009.347 536.98
LOCATION L0000059      VOLUME     486818.715 3766008.198 537.06
LOCATION L0000060      VOLUME     486822.188 3766007.050 537.11
LOCATION L0000061      VOLUME     486825.660 3766005.901 537.14
LOCATION L0000062      VOLUME     486829.133 3766004.752 537.14
LOCATION L0000063      VOLUME     486832.605 3766003.604 537.12
LOCATION L0000064      VOLUME     486836.078 3766002.455 537.10
LOCATION L0000065      VOLUME     486839.550 3766001.307 537.08
LOCATION L0000066      VOLUME     486843.023 3766000.158 537.05
LOCATION L0000067      VOLUME     486846.496 3765999.009 537.15
LOCATION L0000068      VOLUME     486849.968 3765997.861 537.35
LOCATION L0000069      VOLUME     486853.441 3765996.712 537.54
LOCATION L0000070      VOLUME     486856.913 3765995.563 537.74
LOCATION L0000071      VOLUME     486860.386 3765994.415 537.95
LOCATION L0000072      VOLUME     486863.858 3765993.266 538.18
LOCATION L0000073      VOLUME     486867.331 3765992.118 538.40
LOCATION L0000074      VOLUME     486870.803 3765990.969 538.61
LOCATION L0000075      VOLUME     486874.276 3765989.820 538.81
LOCATION L0000076      VOLUME     486877.749 3765988.672 539.00
LOCATION L0000077      VOLUME     486881.221 3765987.523 539.18
LOCATION L0000078      VOLUME     486884.694 3765986.374 539.36
LOCATION L0000079      VOLUME     486888.166 3765985.226 539.56
LOCATION L0000080      VOLUME     486891.639 3765984.077 539.74
LOCATION L0000081      VOLUME     486895.111 3765982.929 539.91
LOCATION L0000082      VOLUME     486898.569 3765981.735 540.06
LOCATION L0000083      VOLUME     486902.017 3765980.516 540.20
LOCATION L0000084      VOLUME     486905.465 3765979.296 540.32
LOCATION L0000085      VOLUME     486908.913 3765978.076 540.42
LOCATION L0000086      VOLUME     486912.362 3765976.856 540.51
LOCATION L0000087      VOLUME     486915.810 3765975.636 540.59
LOCATION L0000088      VOLUME     486919.258 3765974.417 540.66
LOCATION L0000089      VOLUME     486922.706 3765973.197 540.71
LOCATION L0000090      VOLUME     486926.154 3765971.977 540.76
LOCATION L0000091      VOLUME     486929.603 3765970.757 540.79
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LOCATION L0000093     VOLUME     486936.499 3765968.318 540.90
LOCATION L0000094     VOLUME     486939.947 3765967.098 541.11
LOCATION L0000095     VOLUME     486943.396 3765965.878 541.31
LOCATION L0000096     VOLUME     486946.844 3765964.658 541.51
LOCATION L0000097     VOLUME     486950.292 3765963.439 541.70
LOCATION L0000098     VOLUME     486953.740 3765962.219 541.89
LOCATION L0000099     VOLUME     486957.188 3765960.999 542.08
LOCATION L0000100     VOLUME     486960.637 3765959.779 542.26
LOCATION L0000101     VOLUME     486964.085 3765958.560 542.47
LOCATION L0000102     VOLUME     486967.533 3765957.340 542.67
LOCATION L0000103     VOLUME     486970.981 3765956.120 542.86
LOCATION L0000104     VOLUME     486974.429 3765954.900 543.03
LOCATION L0000105     VOLUME     486977.878 3765953.680 543.20
LOCATION L0000106     VOLUME     486981.326 3765952.461 543.36
LOCATION L0000107     VOLUME     486984.774 3765951.241 543.51
LOCATION L0000108     VOLUME     486988.222 3765950.021 543.66
LOCATION L0000109     VOLUME     486991.671 3765948.801 543.80
LOCATION L0000110     VOLUME     486995.119 3765947.582 543.93
LOCATION L0000111     VOLUME     486998.567 3765946.362 544.05
LOCATION L0000112     VOLUME     487002.015 3765945.142 544.15
LOCATION L0000113     VOLUME     487005.463 3765943.922 544.23
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LOCATION L0000115     VOLUME     487012.360 3765941.483 544.35
LOCATION L0000116     VOLUME     487015.808 3765940.263 544.42
LOCATION L0000117     VOLUME     487019.256 3765939.043 544.47
LOCATION L0000118     VOLUME     487022.671 3765937.735 544.52
LOCATION L0000119     VOLUME     487026.075 3765936.395 544.70
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LOCATION L0000125     VOLUME     487046.495 3765928.356 545.82
LOCATION L0000126     VOLUME     487049.898 3765927.016 546.02
LOCATION L0000127     VOLUME     487053.301 3765925.676 546.21
LOCATION L0000128     VOLUME     487056.705 3765924.336 546.39
LOCATION L0000129     VOLUME     487060.108 3765922.996 546.56
LOCATION L0000130     VOLUME     487063.511 3765921.656 546.72
LOCATION L0000131     VOLUME     487066.915 3765920.316 546.89
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LOCATION L0000133     VOLUME     487073.721 3765917.636 547.18
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LOCATION L0000137     VOLUME     487087.335 3765912.277 547.57
LOCATION L0000138     VOLUME     487090.738 3765910.937 547.63
LOCATION L0000139     VOLUME     487094.142 3765909.597 547.69
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LOCATION L0000141     VOLUME     487100.948 3765906.917 547.76
LOCATION L0000142     VOLUME     487104.352 3765905.577 547.90
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LOCATION L0000145      VOLUME      487114.562 3765901.558 548.34
LOCATION L0000146      VOLUME      487117.965 3765900.218 548.57
LOCATION L0000147      VOLUME      487121.368 3765898.878 548.80
LOCATION L0000148      VOLUME      487124.772 3765897.538 549.03
LOCATION L0000149      VOLUME      487128.155 3765896.152 549.25
LOCATION L0000150      VOLUME      487131.498 3765894.666 549.47
LOCATION L0000151      VOLUME      487134.840 3765893.181 549.68
LOCATION L0000152      VOLUME      487138.183 3765891.695 549.88
LOCATION L0000153      VOLUME      487141.525 3765890.210 550.20
LOCATION L0000154      VOLUME      487144.867 3765888.724 550.76
LOCATION L0000155      VOLUME      487148.210 3765887.239 551.30
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LOCATION L0000161      VOLUME      487168.264 3765878.326 554.01
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LOCATION L0000163      VOLUME      487174.948 3765875.355 554.80
LOCATION L0000164      VOLUME      487178.291 3765873.869 555.12
LOCATION L0000165      VOLUME      487181.633 3765872.384 555.41
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LOCATION L0000167      VOLUME      487188.318 3765869.413 555.92
LOCATION L0000168      VOLUME      487191.660 3765867.927 556.14
LOCATION L0000169      VOLUME      487195.003 3765866.442 555.75
LOCATION L0000170      VOLUME      487198.345 3765864.956 555.39
LOCATION L0000171      VOLUME      487201.687 3765863.471 555.07
LOCATION L0000172      VOLUME      487205.030 3765861.985 554.80
LOCATION L0000173      VOLUME      487208.372 3765860.500 554.56
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LOCATION L0000176      VOLUME      487218.399 3765856.043 554.19
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LOCATION L0000178      VOLUME      487225.084 3765853.072 554.43
LOCATION L0000179      VOLUME      487228.426 3765851.587 554.54
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LOCATION L0000181      VOLUME      487235.111 3765848.616 554.73
LOCATION L0000182      VOLUME      487238.453 3765847.130 554.81
LOCATION L0000183      VOLUME      487241.796 3765845.645 554.89
LOCATION L0000184      VOLUME      487245.138 3765844.159 555.12
LOCATION L0000185      VOLUME      487248.480 3765842.674 555.44
LOCATION L0000186      VOLUME      487251.823 3765841.189 555.74
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LOCATION L0000191      VOLUME      487268.035 3765832.750 556.99
LOCATION L0000192      VOLUME      487271.245 3765830.996 557.33
LOCATION L0000193      VOLUME      487274.455 3765829.243 557.66
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LOCATION L0000197     VOLUME     487287.295 3765822.230 558.59
LOCATION L0000198     VOLUME     487290.505 3765820.477 558.72
LOCATION L0000199     VOLUME     487293.715 3765818.724 558.82
LOCATION L0000200     VOLUME     487296.925 3765816.971 558.91
LOCATION L0000201     VOLUME     487300.135 3765815.218 558.97
LOCATION L0000202     VOLUME     487303.345 3765813.465 559.09
LOCATION L0000203     VOLUME     487306.555 3765811.711 559.30
LOCATION L0000204     VOLUME     487309.765 3765809.958 559.51
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LOCATION L0000206     VOLUME     487316.185 3765806.452 559.89
LOCATION L0000207     VOLUME     487319.395 3765804.699 560.06
LOCATION L0000208     VOLUME     487322.605 3765802.946 560.44
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LOCATION L0000210     VOLUME     487329.025 3765799.439 561.17
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LOCATION L0000213     VOLUME     487338.656 3765794.180 562.00
LOCATION L0000214     VOLUME     487341.866 3765792.426 562.21
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LOCATION L0000227     VOLUME     487383.782 3765769.983 566.24
LOCATION L0000228     VOLUME     487387.025 3765768.292 566.40
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LOCATION L0000237     VOLUME     487416.210 3765753.065 568.52
LOCATION L0000238     VOLUME     487419.453 3765751.373 568.87
LOCATION L0000239     VOLUME     487422.695 3765749.681 569.29
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LOCATION L0000241     VOLUME     487429.181 3765746.297 570.77
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LOCATION L0000244     VOLUME     487438.909 3765741.221 572.23
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LOCATION L0000250      VOLUME     487458.292 3765730.929 573.09
LOCATION L0000251      VOLUME     487461.519 3765729.208 573.08
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LOCATION L0000253      VOLUME     487467.974 3765725.766 572.88
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LOCATION L0000257      VOLUME     487480.883 3765718.881 572.81
LOCATION L0000258      VOLUME     487484.110 3765717.160 573.07
LOCATION L0000259      VOLUME     487487.337 3765715.438 573.28
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LOCATION L0000267      VOLUME     487513.156 3765701.669 575.03
LOCATION L0000268      VOLUME     487516.383 3765699.947 575.22
LOCATION L0000269      VOLUME     487519.608 3765698.222 575.36
LOCATION L0000270      VOLUME     487522.829 3765696.488 575.46
LOCATION L0000271      VOLUME     487526.049 3765694.754 575.69
LOCATION L0000272      VOLUME     487529.269 3765693.020 576.15
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LOCATION L0000274      VOLUME     487535.710 3765689.552 577.10
LOCATION L0000275      VOLUME     487538.931 3765687.818 577.65
LOCATION L0000276      VOLUME     487542.151 3765686.084 578.12
LOCATION L0000277      VOLUME     487545.371 3765684.350 578.49
LOCATION L0000278      VOLUME     487548.592 3765682.615 578.78
LOCATION L0000279      VOLUME     487551.812 3765680.881 579.11
LOCATION L0000280      VOLUME     487555.033 3765679.147 579.53
LOCATION L0000281      VOLUME     487558.253 3765677.413 579.85
LOCATION L0000282      VOLUME     487561.473 3765675.679 580.07
LOCATION L0000283      VOLUME     487564.694 3765673.945 580.19
LOCATION L0000284      VOLUME     487567.914 3765672.211 580.21
LOCATION L0000285      VOLUME     487571.135 3765670.477 580.13
LOCATION L0000286      VOLUME     487574.326 3765668.692 579.92
LOCATION L0000287      VOLUME     487577.456 3765666.799 579.64
LOCATION L0000288      VOLUME     487580.586 3765664.907 579.46
LOCATION L0000289      VOLUME     487583.716 3765663.014 579.22
LOCATION L0000290      VOLUME     487586.845 3765661.122 578.94
LOCATION L0000291      VOLUME     487589.975 3765659.229 578.88
LOCATION L0000292      VOLUME     487593.105 3765657.337 579.30
LOCATION L0000293      VOLUME     487596.235 3765655.444 579.64
LOCATION L0000294      VOLUME     487599.365 3765653.551 579.90
LOCATION L0000295      VOLUME     487602.495 3765651.659 580.06
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   LOCATION L0000297      VOLUME     487608.755 3765647.874 580.10
   LOCATION L0000298      VOLUME     487612.008 3765646.208 580.14
   LOCATION L0000299      VOLUME     487615.300 3765644.615 580.18
   LOCATION L0000300      VOLUME     487618.593 3765643.022 580.18
   LOCATION L0000301      VOLUME     487621.885 3765641.429 580.14
   LOCATION L0000302      VOLUME     487625.178 3765639.836 580.07
   LOCATION L0000303      VOLUME     487628.470 3765638.243 579.90
   LOCATION L0000304      VOLUME     487631.762 3765636.650 579.65
   LOCATION L0000305      VOLUME     487635.055 3765635.056 579.47
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC WB 10 freeway
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00124
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 14
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   LOCATION L0000610      VOLUME     486610.310 3766047.306 528.76
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   LOCATION L0000616      VOLUME     486631.166 3766040.477 529.52
   LOCATION L0000617      VOLUME     486634.642 3766039.339 529.67
   LOCATION L0000618      VOLUME     486638.118 3766038.201 529.83
   LOCATION L0000619      VOLUME     486641.594 3766037.063 529.99
   LOCATION L0000620      VOLUME     486645.070 3766035.925 530.15
   LOCATION L0000621      VOLUME     486648.546 3766034.786 530.31
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LOCATION L0000624     VOLUME     486658.974 3766031.372 530.79
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LOCATION L0000627     VOLUME     486669.402 3766027.957 531.09
LOCATION L0000628     VOLUME     486672.878 3766026.819 531.19
LOCATION L0000629     VOLUME     486676.354 3766025.681 531.29
LOCATION L0000630     VOLUME     486679.830 3766024.543 531.40
LOCATION L0000631     VOLUME     486683.306 3766023.404 531.51
LOCATION L0000632     VOLUME     486686.782 3766022.266 531.62
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LOCATION L0000634     VOLUME     486693.734 3766019.990 531.87
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LOCATION L0000638     VOLUME     486707.638 3766015.437 532.44
LOCATION L0000639     VOLUME     486711.114 3766014.299 532.59
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LOCATION L0000644     VOLUME     486728.494 3766008.608 533.43
LOCATION L0000645     VOLUME     486731.970 3766007.470 533.61
LOCATION L0000646     VOLUME     486735.446 3766006.331 533.79
LOCATION L0000647     VOLUME     486738.922 3766005.193 533.97
LOCATION L0000648     VOLUME     486742.396 3766004.050 534.15
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LOCATION L0000650     VOLUME     486749.298 3766001.626 534.50
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LOCATION L0000654     VOLUME     486763.102 3765996.779 534.99
LOCATION L0000655     VOLUME     486766.553 3765995.567 535.09
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LOCATION L0000659     VOLUME     486780.357 3765990.719 535.58
LOCATION L0000660     VOLUME     486783.808 3765989.507 535.71
LOCATION L0000661     VOLUME     486787.259 3765988.295 535.85
LOCATION L0000662     VOLUME     486790.710 3765987.083 535.99
LOCATION L0000663     VOLUME     486794.161 3765985.871 536.13
LOCATION L0000664     VOLUME     486797.612 3765984.659 536.29
LOCATION L0000665     VOLUME     486801.063 3765983.447 536.45
LOCATION L0000666     VOLUME     486804.514 3765982.236 536.62
LOCATION L0000667     VOLUME     486807.965 3765981.024 536.79
LOCATION L0000668     VOLUME     486811.416 3765979.812 536.96
LOCATION L0000669     VOLUME     486814.867 3765978.600 537.13
LOCATION L0000670     VOLUME     486818.318 3765977.388 537.31
LOCATION L0000671     VOLUME     486821.769 3765976.176 537.49
LOCATION L0000672     VOLUME     486825.220 3765974.964 537.67
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LOCATION L0000679     VOLUME    486849.468 3765966.752 538.77
LOCATION L0000680     VOLUME    486852.948 3765965.627 538.88
LOCATION L0000681     VOLUME    486856.429 3765964.502 538.99
LOCATION L0000682     VOLUME    486859.909 3765963.377 539.10
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LOCATION L0000685     VOLUME    486870.350 3765960.003 539.44
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LOCATION L0000687     VOLUME    486877.311 3765957.753 539.69
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LOCATION L0000689     VOLUME    486884.272 3765955.504 539.97
LOCATION L0000690     VOLUME    486887.752 3765954.379 540.11
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LOCATION L0000708     VOLUME    486950.408 3765934.161 542.92
LOCATION L0000709     VOLUME    486953.889 3765933.040 543.04
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LOCATION L0000712     VOLUME    486964.333 3765929.676 543.40
LOCATION L0000713     VOLUME    486967.815 3765928.554 543.51
LOCATION L0000714     VOLUME    486971.296 3765927.433 543.63
LOCATION L0000715     VOLUME    486974.778 3765926.311 543.76
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LOCATION L0000717     VOLUME    486981.741 3765924.069 544.02
LOCATION L0000718     VOLUME    486985.222 3765922.947 544.16
LOCATION L0000719     VOLUME    486988.703 3765921.826 544.31
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LOCATION L0000723     VOLUME    487002.573 3765917.170 544.92
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LOCATION L0000868       VOLUME    487480.582 3765690.484 567.82
LOCATION L0000869       VOLUME    487483.829 3765688.801 568.06
LOCATION L0000870       VOLUME    487487.077 3765687.117 568.30
LOCATION L0000871       VOLUME    487490.324 3765685.434 568.53
LOCATION L0000872       VOLUME    487493.571 3765683.751 568.74
LOCATION L0000873       VOLUME    487496.819 3765682.068 568.94
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LOCATION L0000876       VOLUME    487506.561 3765677.019 569.87
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        LOCATION L0000907      VOLUME     487606.750 3765623.969 574.15
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** Source Parameters **
** LINE VOLUME Source ID = SLINE1
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** ----------------------------------------------------------------------
    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
    INCLUDED "Terracina at Redlands OY.rou"
RE FINISHED
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**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
    SURFFILE "E:\New MET data\RDLD_V9_ADJU\RDLD_v9.SFC"
    PROFFILE "E:\New MET data\RDLD_V9_ADJU\RDLD_v9.PFL"
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    SITEDATA 99999 2012
    PROFBASE 481.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
    PLOTFILE PERIOD ALL "Terracina at Redlands OY.AD\PE00GALL.PLT" 31
    SUMMFILE "Terracina at Redlands OY.sum"
OU FINISHED


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

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

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of          0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W186    1339      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187    1339      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


 *** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                      ***        08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                      ***        18:13:06
```

*** 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   609 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   2035210.0 ; 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: 609 Source(s);   1 Source Group(s); and   449 Receptor(s)

                with: 0 POINT(s), including
                           0 POINTCAP(s) and   0 POINTHOR(s)
               and: 609 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) =   481.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.8 MB of RAM.

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

**Detailed Error/Message File: Terracina at Redlands OY.err
**File for Summary of Results: Terracina at Redlands OY.sum

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations OY   ***   18:13:06
                                                                                                              PAGE   2
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                     *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ	SOURCE	SCALAR VARY
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		BY
- -
L0000001	0	0.40660E-05	486617.8	3766076.2	527.3	0.00	1.70	0.85	YES	
L0000002	0	0.40660E-05	486621.2	3766075.0	527.5	0.00	1.70	0.85	YES	
L0000003	0	0.40660E-05	486624.7	3766073.9	527.6	0.00	1.70	0.85	YES	
L0000004	0	0.40660E-05	486628.2	3766072.7	527.7	0.00	1.70	0.85	YES	
L0000005	0	0.40660E-05	486631.6	3766071.5	527.9	0.00	1.70	0.85	YES	
L0000006	0	0.40660E-05	486635.1	3766070.3	528.0	0.00	1.70	0.85	YES	
L0000007	0	0.40660E-05	486638.6	3766069.1	528.1	0.00	1.70	0.85	YES	
L0000008	0	0.40660E-05	486642.0	3766068.0	528.3	0.00	1.70	0.85	YES	
L0000009	0	0.40660E-05	486645.5	3766066.8	528.4	0.00	1.70	0.85	YES	
L0000010	0	0.40660E-05	486648.9	3766065.6	528.5	0.00	1.70	0.85	YES	
L0000011	0	0.40660E-05	486652.4	3766064.4	528.5	0.00	1.70	0.85	YES	
L0000012	0	0.40660E-05	486655.9	3766063.3	528.7	0.00	1.70	0.85	YES	
L0000013	0	0.40660E-05	486659.3	3766062.1	528.8	0.00	1.70	0.85	YES	
L0000014	0	0.40660E-05	486662.8	3766060.9	529.0	0.00	1.70	0.85	YES	
L0000015	0	0.40660E-05	486666.3	3766059.7	529.2	0.00	1.70	0.85	YES	
L0000016	0	0.40660E-05	486669.7	3766058.6	529.4	0.00	1.70	0.85	YES	

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L0000017          0   0.40660E-05   486673.2 3766057.4   529.5    0.00    1.70    0.85    YES
L0000018          0   0.40660E-05   486676.6 3766056.2   529.7    0.00    1.70    0.85    YES
L0000019          0   0.40660E-05   486680.1 3766055.0   529.9    0.00    1.70    0.85    YES
L0000020          0   0.40660E-05   486683.6 3766053.8   530.1    0.00    1.70    0.85    YES
L0000021          0   0.40660E-05   486687.0 3766052.7   530.3    0.00    1.70    0.85    YES
L0000022          0   0.40660E-05   486690.5 3766051.5   530.5    0.00    1.70    0.85    YES
L0000023          0   0.40660E-05   486694.0 3766050.3   530.7    0.00    1.70    0.85    YES
L0000024          0   0.40660E-05   486697.4 3766049.1   530.8    0.00    1.70    0.85    YES
L0000025          0   0.40660E-05   486700.9 3766048.0   531.0    0.00    1.70    0.85    YES
L0000026          0   0.40660E-05   486704.3 3766046.8   531.1    0.00    1.70    0.85    YES
L0000027          0   0.40660E-05   486707.8 3766045.6   531.3    0.00    1.70    0.85    YES
L0000028          0   0.40660E-05   486711.3 3766044.4   531.5    0.00    1.70    0.85    YES
L0000029          0   0.40660E-05   486714.7 3766043.2   531.7    0.00    1.70    0.85    YES
L0000030          0   0.40660E-05   486718.2 3766042.1   531.8    0.00    1.70    0.85    YES
L0000031          0   0.40660E-05   486721.7 3766040.9   532.0    0.00    1.70    0.85    YES
L0000032          0   0.40660E-05   486725.1 3766039.7   532.1    0.00    1.70    0.85    YES
L0000033          0   0.40660E-05   486728.6 3766038.5   532.2    0.00    1.70    0.85    YES
L0000034          0   0.40660E-05   486732.1 3766037.4   532.4    0.00    1.70    0.85    YES
L0000035          0   0.40660E-05   486735.5 3766036.2   532.6    0.00    1.70    0.85    YES
L0000036          0   0.40660E-05   486739.0 3766035.0   532.8    0.00    1.70    0.85    YES
L0000037          0   0.40660E-05   486742.4 3766033.8   533.0    0.00    1.70    0.85    YES
L0000038          0   0.40660E-05   486745.9 3766032.7   533.1    0.00    1.70    0.85    YES
L0000039          0   0.40660E-05   486749.4 3766031.5   533.2    0.00    1.70    0.85    YES
L0000040          0   0.40660E-05   486752.8 3766030.3   533.2    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                            ***       08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations OY                            ***       18:13:06
                                                                                                                  PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                              *** VOLUME SOURCE DATA ***


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


   L0000041          0   0.40660E-05   486756.3 3766029.1   533.4    0.00    1.70    0.85    YES
   L0000042          0   0.40660E-05   486759.8 3766027.9   533.7    0.00    1.70    0.85    YES
   L0000043          0   0.40660E-05   486763.2 3766026.8   534.0    0.00    1.70    0.85    YES
   L0000044          0   0.40660E-05   486766.7 3766025.6   534.3    0.00    1.70    0.85    YES
   L0000045          0   0.40660E-05   486770.1 3766024.4   534.5    0.00    1.70    0.85    YES
   L0000046          0   0.40660E-05   486773.6 3766023.2   534.8    0.00    1.70    0.85    YES
   L0000047          0   0.40660E-05   486777.1 3766022.1   535.0    0.00    1.70    0.85    YES
   L0000048          0   0.40660E-05   486780.5 3766020.9   535.2    0.00    1.70    0.85    YES
   L0000049          0   0.40660E-05   486784.0 3766019.7   535.4    0.00    1.70    0.85    YES
   L0000050          0   0.40660E-05   486787.5 3766018.5   535.7    0.00    1.70    0.85    YES
   L0000051          0   0.40660E-05   486790.9 3766017.4   535.9    0.00    1.70    0.85    YES
   L0000052          0   0.40660E-05   486794.4 3766016.2   536.1    0.00    1.70    0.85    YES
   L0000053          0   0.40660E-05   486797.9 3766015.1   536.3    0.00    1.70    0.85    YES
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L0000054          0    0.40660E-05   486801.4 3766013.9   536.5     0.00     1.70      0.85     YES
L0000055          0    0.40660E-05   486804.8 3766012.8   536.6     0.00     1.70      0.85     YES
L0000056          0    0.40660E-05   486808.3 3766011.6   536.7     0.00     1.70      0.85     YES
L0000057          0    0.40660E-05   486811.8 3766010.5   536.9     0.00     1.70      0.85     YES
L0000058          0    0.40660E-05   486815.2 3766009.3   537.0     0.00     1.70      0.85     YES
L0000059          0    0.40660E-05   486818.7 3766008.2   537.1     0.00     1.70      0.85     YES
L0000060          0    0.40660E-05   486822.2 3766007.0   537.1     0.00     1.70      0.85     YES
L0000061          0    0.40660E-05   486825.7 3766005.9   537.1     0.00     1.70      0.85     YES
L0000062          0    0.40660E-05   486829.1 3766004.8   537.1     0.00     1.70      0.85     YES
L0000063          0    0.40660E-05   486832.6 3766003.6   537.1     0.00     1.70      0.85     YES
L0000064          0    0.40660E-05   486836.1 3766002.5   537.1     0.00     1.70      0.85     YES
L0000065          0    0.40660E-05   486839.5 3766001.3   537.1     0.00     1.70      0.85     YES
L0000066          0    0.40660E-05   486843.0 3766000.2   537.0     0.00     1.70      0.85     YES
L0000067          0    0.40660E-05   486846.5 3765999.0   537.1     0.00     1.70      0.85     YES
L0000068          0    0.40660E-05   486850.0 3765997.9   537.3     0.00     1.70      0.85     YES
L0000069          0    0.40660E-05   486853.4 3765996.7   537.5     0.00     1.70      0.85     YES
L0000070          0    0.40660E-05   486856.9 3765995.6   537.7     0.00     1.70      0.85     YES
L0000071          0    0.40660E-05   486860.4 3765994.4   537.9     0.00     1.70      0.85     YES
L0000072          0    0.40660E-05   486863.9 3765993.3   538.2     0.00     1.70      0.85     YES
L0000073          0    0.40660E-05   486867.3 3765992.1   538.4     0.00     1.70      0.85     YES
L0000074          0    0.40660E-05   486870.8 3765991.0   538.6     0.00     1.70      0.85     YES
L0000075          0    0.40660E-05   486874.3 3765989.8   538.8     0.00     1.70      0.85     YES
L0000076          0    0.40660E-05   486877.7 3765988.7   539.0     0.00     1.70      0.85     YES
L0000077          0    0.40660E-05   486881.2 3765987.5   539.2     0.00     1.70      0.85     YES
L0000078          0    0.40660E-05   486884.7 3765986.4   539.4     0.00     1.70      0.85     YES
L0000079          0    0.40660E-05   486888.2 3765985.2   539.6     0.00     1.70      0.85     YES
L0000080          0    0.40660E-05   486891.6 3765984.1   539.7     0.00     1.70      0.85     YES
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*** 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	0.40660E-05	486895.1	3765982.9	539.9	0.00	1.70	0.85	YES	
L0000082	0	0.40660E-05	486898.6	3765981.7	540.1	0.00	1.70	0.85	YES	
L0000083	0	0.40660E-05	486902.0	3765980.5	540.2	0.00	1.70	0.85	YES	
L0000084	0	0.40660E-05	486905.5	3765979.3	540.3	0.00	1.70	0.85	YES	
L0000085	0	0.40660E-05	486908.9	3765978.1	540.4	0.00	1.70	0.85	YES	
L0000086	0	0.40660E-05	486912.4	3765976.9	540.5	0.00	1.70	0.85	YES	
L0000087	0	0.40660E-05	486915.8	3765975.6	540.6	0.00	1.70	0.85	YES	
L0000088	0	0.40660E-05	486919.3	3765974.4	540.7	0.00	1.70	0.85	YES	
L0000089	0	0.40660E-05	486922.7	3765973.2	540.7	0.00	1.70	0.85	YES	
L0000090	0	0.40660E-05	486926.2	3765972.0	540.8	0.00	1.70	0.85	YES	

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L0000091         0    0.40660E-05  486929.6  3765970.8    540.8    0.00    1.70    0.85    YES
L0000092         0    0.40660E-05  486933.1  3765969.5    540.8    0.00    1.70    0.85    YES
L0000093         0    0.40660E-05  486936.5  3765968.3    540.9    0.00    1.70    0.85    YES
L0000094         0    0.40660E-05  486939.9  3765967.1    541.1    0.00    1.70    0.85    YES
L0000095         0    0.40660E-05  486943.4  3765965.9    541.3    0.00    1.70    0.85    YES
L0000096         0    0.40660E-05  486946.8  3765964.7    541.5    0.00    1.70    0.85    YES
L0000097         0    0.40660E-05  486950.3  3765963.4    541.7    0.00    1.70    0.85    YES
L0000098         0    0.40660E-05  486953.7  3765962.2    541.9    0.00    1.70    0.85    YES
L0000099         0    0.40660E-05  486957.2  3765961.0    542.1    0.00    1.70    0.85    YES
L0000100         0    0.40660E-05  486960.6  3765959.8    542.3    0.00    1.70    0.85    YES
L0000101         0    0.40660E-05  486964.1  3765958.6    542.5    0.00    1.70    0.85    YES
L0000102         0    0.40660E-05  486967.5  3765957.3    542.7    0.00    1.70    0.85    YES
L0000103         0    0.40660E-05  486971.0  3765956.1    542.9    0.00    1.70    0.85    YES
L0000104         0    0.40660E-05  486974.4  3765954.9    543.0    0.00    1.70    0.85    YES
L0000105         0    0.40660E-05  486977.9  3765953.7    543.2    0.00    1.70    0.85    YES
L0000106         0    0.40660E-05  486981.3  3765952.5    543.4    0.00    1.70    0.85    YES
L0000107         0    0.40660E-05  486984.8  3765951.2    543.5    0.00    1.70    0.85    YES
L0000108         0    0.40660E-05  486988.2  3765950.0    543.7    0.00    1.70    0.85    YES
L0000109         0    0.40660E-05  486991.7  3765948.8    543.8    0.00    1.70    0.85    YES
L0000110         0    0.40660E-05  486995.1  3765947.6    543.9    0.00    1.70    0.85    YES
L0000111         0    0.40660E-05  486998.6  3765946.4    544.0    0.00    1.70    0.85    YES
L0000112         0    0.40660E-05  487002.0  3765945.1    544.1    0.00    1.70    0.85    YES
L0000113         0    0.40660E-05  487005.5  3765943.9    544.2    0.00    1.70    0.85    YES
L0000114         0    0.40660E-05  487008.9  3765942.7    544.3    0.00    1.70    0.85    YES
L0000115         0    0.40660E-05  487012.4  3765941.5    544.3    0.00    1.70    0.85    YES
L0000116         0    0.40660E-05  487015.8  3765940.3    544.4    0.00    1.70    0.85    YES
L0000117         0    0.40660E-05  487019.3  3765939.0    544.5    0.00    1.70    0.85    YES
L0000118         0    0.40660E-05  487022.7  3765937.7    544.5    0.00    1.70    0.85    YES
L0000119         0    0.40660E-05  487026.1  3765936.4    544.7    0.00    1.70    0.85    YES
L0000120         0    0.40660E-05  487029.5  3765935.1    544.9    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                          ***        08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations OY                          ***        18:13:06
                                                                                                                 PAGE   5
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                              *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000121	0	0.40660E-05	487032.9	3765933.7	545.0	0.00	1.70	0.85	YES	
L0000122	0	0.40660E-05	487036.3	3765932.4	545.2	0.00	1.70	0.85	YES	
L0000123	0	0.40660E-05	487039.7	3765931.0	545.4	0.00	1.70	0.85	YES	
L0000124	0	0.40660E-05	487043.1	3765929.7	545.6	0.00	1.70	0.85	YES	
L0000125	0	0.40660E-05	487046.5	3765928.4	545.8	0.00	1.70	0.85	YES	
L0000126	0	0.40660E-05	487049.9	3765927.0	546.0	0.00	1.70	0.85	YES	
L0000127	0	0.40660E-05	487053.3	3765925.7	546.2	0.00	1.70	0.85	YES	

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L0000128      0   0.40660E-05  487056.7 3765924.3   546.4   0.00   1.70   0.85   YES
L0000129      0   0.40660E-05  487060.1 3765923.0   546.6   0.00   1.70   0.85   YES
L0000130      0   0.40660E-05  487063.5 3765921.7   546.7   0.00   1.70   0.85   YES
L0000131      0   0.40660E-05  487066.9 3765920.3   546.9   0.00   1.70   0.85   YES
L0000132      0   0.40660E-05  487070.3 3765919.0   547.0   0.00   1.70   0.85   YES
L0000133      0   0.40660E-05  487073.7 3765917.6   547.2   0.00   1.70   0.85   YES
L0000134      0   0.40660E-05  487077.1 3765916.3   547.3   0.00   1.70   0.85   YES
L0000135      0   0.40660E-05  487080.5 3765915.0   547.4   0.00   1.70   0.85   YES
L0000136      0   0.40660E-05  487083.9 3765913.6   547.5   0.00   1.70   0.85   YES
L0000137      0   0.40660E-05  487087.3 3765912.3   547.6   0.00   1.70   0.85   YES
L0000138      0   0.40660E-05  487090.7 3765910.9   547.6   0.00   1.70   0.85   YES
L0000139      0   0.40660E-05  487094.1 3765909.6   547.7   0.00   1.70   0.85   YES
L0000140      0   0.40660E-05  487097.5 3765908.3   547.7   0.00   1.70   0.85   YES
L0000141      0   0.40660E-05  487100.9 3765906.9   547.8   0.00   1.70   0.85   YES
L0000142      0   0.40660E-05  487104.4 3765905.6   547.9   0.00   1.70   0.85   YES
L0000143      0   0.40660E-05  487107.8 3765904.2   548.0   0.00   1.70   0.85   YES
L0000144      0   0.40660E-05  487111.2 3765902.9   548.2   0.00   1.70   0.85   YES
L0000145      0   0.40660E-05  487114.6 3765901.6   548.3   0.00   1.70   0.85   YES
L0000146      0   0.40660E-05  487118.0 3765900.2   548.6   0.00   1.70   0.85   YES
L0000147      0   0.40660E-05  487121.4 3765898.9   548.8   0.00   1.70   0.85   YES
L0000148      0   0.40660E-05  487124.8 3765897.5   549.0   0.00   1.70   0.85   YES
L0000149      0   0.40660E-05  487128.2 3765896.2   549.2   0.00   1.70   0.85   YES
L0000150      0   0.40660E-05  487131.5 3765894.7   549.5   0.00   1.70   0.85   YES
L0000151      0   0.40660E-05  487134.8 3765893.2   549.7   0.00   1.70   0.85   YES
L0000152      0   0.40660E-05  487138.2 3765891.7   549.9   0.00   1.70   0.85   YES
L0000153      0   0.40660E-05  487141.5 3765890.2   550.2   0.00   1.70   0.85   YES
L0000154      0   0.40660E-05  487144.9 3765888.7   550.8   0.00   1.70   0.85   YES
L0000155      0   0.40660E-05  487148.2 3765887.2   551.3   0.00   1.70   0.85   YES
L0000156      0   0.40660E-05  487151.6 3765885.8   551.8   0.00   1.70   0.85   YES
L0000157      0   0.40660E-05  487154.9 3765884.3   552.3   0.00   1.70   0.85   YES
L0000158      0   0.40660E-05  487158.2 3765882.8   552.8   0.00   1.70   0.85   YES
L0000159      0   0.40660E-05  487161.6 3765881.3   553.2   0.00   1.70   0.85   YES
L0000160      0   0.40660E-05  487164.9 3765879.8   553.6   0.00   1.70   0.85   YES
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*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                                    ***      08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations OY                                    ***      18:13:06
                                                                                                                         PAGE   6
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000161	0	0.40660E-05	487168.3	3765878.3	554.0	0.00	1.70	0.85	YES	
L0000162	0	0.40660E-05	487171.6	3765876.8	554.4	0.00	1.70	0.85	YES	
L0000163	0	0.40660E-05	487174.9	3765875.4	554.8	0.00	1.70	0.85	YES	
L0000164	0	0.40660E-05	487178.3	3765873.9	555.1	0.00	1.70	0.85	YES	

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L0000165      0    0.40660E-05   487181.6 3765872.4   555.4     0.00      1.70     0.85     YES
L0000166      0    0.40660E-05   487185.0 3765870.9   555.7     0.00      1.70     0.85     YES
L0000167      0    0.40660E-05   487188.3 3765869.4   555.9     0.00      1.70     0.85     YES
L0000168      0    0.40660E-05   487191.7 3765867.9   556.1     0.00      1.70     0.85     YES
L0000169      0    0.40660E-05   487195.0 3765866.4   555.8     0.00      1.70     0.85     YES
L0000170      0    0.40660E-05   487198.3 3765865.0   555.4     0.00      1.70     0.85     YES
L0000171      0    0.40660E-05   487201.7 3765863.5   555.1     0.00      1.70     0.85     YES
L0000172      0    0.40660E-05   487205.0 3765862.0   554.8     0.00      1.70     0.85     YES
L0000173      0    0.40660E-05   487208.4 3765860.5   554.6     0.00      1.70     0.85     YES
L0000174      0    0.40660E-05   487211.7 3765859.0   554.4     0.00      1.70     0.85     YES
L0000175      0    0.40660E-05   487215.1 3765857.5   554.2     0.00      1.70     0.85     YES
L0000176      0    0.40660E-05   487218.4 3765856.0   554.2     0.00      1.70     0.85     YES
L0000177      0    0.40660E-05   487221.7 3765854.6   554.3     0.00      1.70     0.85     YES
L0000178      0    0.40660E-05   487225.1 3765853.1   554.4     0.00      1.70     0.85     YES
L0000179      0    0.40660E-05   487228.4 3765851.6   554.5     0.00      1.70     0.85     YES
L0000180      0    0.40660E-05   487231.8 3765850.1   554.6     0.00      1.70     0.85     YES
L0000181      0    0.40660E-05   487235.1 3765848.6   554.7     0.00      1.70     0.85     YES
L0000182      0    0.40660E-05   487238.5 3765847.1   554.8     0.00      1.70     0.85     YES
L0000183      0    0.40660E-05   487241.8 3765845.6   554.9     0.00      1.70     0.85     YES
L0000184      0    0.40660E-05   487245.1 3765844.2   555.1     0.00      1.70     0.85     YES
L0000185      0    0.40660E-05   487248.5 3765842.7   555.4     0.00      1.70     0.85     YES
L0000186      0    0.40660E-05   487251.8 3765841.2   555.7     0.00      1.70     0.85     YES
L0000187      0    0.40660E-05   487255.2 3765839.7   556.0     0.00      1.70     0.85     YES
L0000188      0    0.40660E-05   487258.4 3765838.0   556.3     0.00      1.70     0.85     YES
L0000189      0    0.40660E-05   487261.6 3765836.3   556.5     0.00      1.70     0.85     YES
L0000190      0    0.40660E-05   487264.8 3765834.5   556.8     0.00      1.70     0.85     YES
L0000191      0    0.40660E-05   487268.0 3765832.8   557.0     0.00      1.70     0.85     YES
L0000192      0    0.40660E-05   487271.2 3765831.0   557.3     0.00      1.70     0.85     YES
L0000193      0    0.40660E-05   487274.5 3765829.2   557.7     0.00      1.70     0.85     YES
L0000194      0    0.40660E-05   487277.7 3765827.5   557.9     0.00      1.70     0.85     YES
L0000195      0    0.40660E-05   487280.9 3765825.7   558.2     0.00      1.70     0.85     YES
L0000196      0    0.40660E-05   487284.1 3765824.0   558.4     0.00      1.70     0.85     YES
L0000197      0    0.40660E-05   487287.3 3765822.2   558.6     0.00      1.70     0.85     YES
L0000198      0    0.40660E-05   487290.5 3765820.5   558.7     0.00      1.70     0.85     YES
L0000199      0    0.40660E-05   487293.7 3765818.7   558.8     0.00      1.70     0.85     YES
L0000200      0    0.40660E-05   487296.9 3765817.0   558.9     0.00      1.70     0.85     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000201	0	0.40660E-05	487300.1	3765815.2	559.0	0.00	1.70	0.85	YES	

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L0000202      0   0.40660E-05  487303.3 3765813.5   559.1    0.00     1.70     0.85     YES
L0000203      0   0.40660E-05  487306.6 3765811.7   559.3    0.00     1.70     0.85     YES
L0000204      0   0.40660E-05  487309.8 3765810.0   559.5    0.00     1.70     0.85     YES
L0000205      0   0.40660E-05  487313.0 3765808.2   559.7    0.00     1.70     0.85     YES
L0000206      0   0.40660E-05  487316.2 3765806.5   559.9    0.00     1.70     0.85     YES
L0000207      0   0.40660E-05  487319.4 3765804.7   560.1    0.00     1.70     0.85     YES
L0000208      0   0.40660E-05  487322.6 3765802.9   560.4    0.00     1.70     0.85     YES
L0000209      0   0.40660E-05  487325.8 3765801.2   560.8    0.00     1.70     0.85     YES
L0000210      0   0.40660E-05  487329.0 3765799.4   561.2    0.00     1.70     0.85     YES
L0000211      0   0.40660E-05  487332.2 3765797.7   561.5    0.00     1.70     0.85     YES
L0000212      0   0.40660E-05  487335.4 3765795.9   561.8    0.00     1.70     0.85     YES
L0000213      0   0.40660E-05  487338.7 3765794.2   562.0    0.00     1.70     0.85     YES
L0000214      0   0.40660E-05  487341.9 3765792.4   562.2    0.00     1.70     0.85     YES
L0000215      0   0.40660E-05  487345.1 3765790.7   562.4    0.00     1.70     0.85     YES
L0000216      0   0.40660E-05  487348.3 3765788.9   562.8    0.00     1.70     0.85     YES
L0000217      0   0.40660E-05  487351.5 3765787.2   563.2    0.00     1.70     0.85     YES
L0000218      0   0.40660E-05  487354.7 3765785.4   563.6    0.00     1.70     0.85     YES
L0000219      0   0.40660E-05  487357.9 3765783.7   563.9    0.00     1.70     0.85     YES
L0000220      0   0.40660E-05  487361.1 3765781.9   564.3    0.00     1.70     0.85     YES
L0000221      0   0.40660E-05  487364.3 3765780.2   564.6    0.00     1.70     0.85     YES
L0000222      0   0.40660E-05  487367.6 3765778.4   565.0    0.00     1.70     0.85     YES
L0000223      0   0.40660E-05  487370.8 3765776.8   565.2    0.00     1.70     0.85     YES
L0000224      0   0.40660E-05  487374.1 3765775.1   565.5    0.00     1.70     0.85     YES
L0000225      0   0.40660E-05  487377.3 3765773.4   565.8    0.00     1.70     0.85     YES
L0000226      0   0.40660E-05  487380.5 3765771.7   566.0    0.00     1.70     0.85     YES
L0000227      0   0.40660E-05  487383.8 3765770.0   566.2    0.00     1.70     0.85     YES
L0000228      0   0.40660E-05  487387.0 3765768.3   566.4    0.00     1.70     0.85     YES
L0000229      0   0.40660E-05  487390.3 3765766.6   566.5    0.00     1.70     0.85     YES
L0000230      0   0.40660E-05  487393.5 3765764.9   566.6    0.00     1.70     0.85     YES
L0000231      0   0.40660E-05  487396.8 3765763.2   566.7    0.00     1.70     0.85     YES
L0000232      0   0.40660E-05  487400.0 3765761.5   567.1    0.00     1.70     0.85     YES
L0000233      0   0.40660E-05  487403.2 3765759.8   567.5    0.00     1.70     0.85     YES
L0000234      0   0.40660E-05  487406.5 3765758.1   567.8    0.00     1.70     0.85     YES
L0000235      0   0.40660E-05  487409.7 3765756.4   568.1    0.00     1.70     0.85     YES
L0000236      0   0.40660E-05  487413.0 3765754.8   568.3    0.00     1.70     0.85     YES
L0000237      0   0.40660E-05  487416.2 3765753.1   568.5    0.00     1.70     0.85     YES
L0000238      0   0.40660E-05  487419.5 3765751.4   568.9    0.00     1.70     0.85     YES
L0000239      0   0.40660E-05  487422.7 3765749.7   569.3    0.00     1.70     0.85     YES
L0000240      0   0.40660E-05  487425.9 3765748.0   570.1    0.00     1.70     0.85     YES
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*** 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

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L0000241          0    0.40660E-05    487429.2 3765746.3    570.8    0.00    1.70    0.85    YES
L0000242          0    0.40660E-05    487432.4 3765744.6    571.4    0.00    1.70    0.85    YES
L0000243          0    0.40660E-05    487435.7 3765742.9    571.8    0.00    1.70    0.85    YES
L0000244          0    0.40660E-05    487438.9 3765741.2    572.2    0.00    1.70    0.85    YES
L0000245          0    0.40660E-05    487442.2 3765739.5    572.5    0.00    1.70    0.85    YES
L0000246          0    0.40660E-05    487445.4 3765737.8    572.7    0.00    1.70    0.85    YES
L0000247          0    0.40660E-05    487448.6 3765736.1    572.8    0.00    1.70    0.85    YES
L0000248          0    0.40660E-05    487451.8 3765734.4    573.0    0.00    1.70    0.85    YES
L0000249          0    0.40660E-05    487455.1 3765732.7    573.1    0.00    1.70    0.85    YES
L0000250          0    0.40660E-05    487458.3 3765730.9    573.1    0.00    1.70    0.85    YES
L0000251          0    0.40660E-05    487461.5 3765729.2    573.1    0.00    1.70    0.85    YES
L0000252          0    0.40660E-05    487464.7 3765727.5    573.0    0.00    1.70    0.85    YES
L0000253          0    0.40660E-05    487468.0 3765725.8    572.9    0.00    1.70    0.85    YES
L0000254          0    0.40660E-05    487471.2 3765724.0    572.7    0.00    1.70    0.85    YES
L0000255          0    0.40660E-05    487474.4 3765722.3    572.4    0.00    1.70    0.85    YES
L0000256          0    0.40660E-05    487477.7 3765720.6    572.5    0.00    1.70    0.85    YES
L0000257          0    0.40660E-05    487480.9 3765718.9    572.8    0.00    1.70    0.85    YES
L0000258          0    0.40660E-05    487484.1 3765717.2    573.1    0.00    1.70    0.85    YES
L0000259          0    0.40660E-05    487487.3 3765715.4    573.3    0.00    1.70    0.85    YES
L0000260          0    0.40660E-05    487490.6 3765713.7    573.5    0.00    1.70    0.85    YES
L0000261          0    0.40660E-05    487493.8 3765712.0    573.6    0.00    1.70    0.85    YES
L0000262          0    0.40660E-05    487497.0 3765710.3    573.7    0.00    1.70    0.85    YES
L0000263          0    0.40660E-05    487500.2 3765708.6    573.9    0.00    1.70    0.85    YES
L0000264          0    0.40660E-05    487503.5 3765706.8    574.2    0.00    1.70    0.85    YES
L0000265          0    0.40660E-05    487506.7 3765705.1    574.5    0.00    1.70    0.85    YES
L0000266          0    0.40660E-05    487509.9 3765703.4    574.8    0.00    1.70    0.85    YES
L0000267          0    0.40660E-05    487513.2 3765701.7    575.0    0.00    1.70    0.85    YES
L0000268          0    0.40660E-05    487516.4 3765699.9    575.2    0.00    1.70    0.85    YES
L0000269          0    0.40660E-05    487519.6 3765698.2    575.4    0.00    1.70    0.85    YES
L0000270          0    0.40660E-05    487522.8 3765696.5    575.5    0.00    1.70    0.85    YES
L0000271          0    0.40660E-05    487526.0 3765694.8    575.7    0.00    1.70    0.85    YES
L0000272          0    0.40660E-05    487529.3 3765693.0    576.1    0.00    1.70    0.85    YES
L0000273          0    0.40660E-05    487532.5 3765691.3    576.5    0.00    1.70    0.85    YES
L0000274          0    0.40660E-05    487535.7 3765689.6    577.1    0.00    1.70    0.85    YES
L0000275          0    0.40660E-05    487538.9 3765687.8    577.6    0.00    1.70    0.85    YES
L0000276          0    0.40660E-05    487542.2 3765686.1    578.1    0.00    1.70    0.85    YES
L0000277          0    0.40660E-05    487545.4 3765684.3    578.5    0.00    1.70    0.85    YES
L0000278          0    0.40660E-05    487548.6 3765682.6    578.8    0.00    1.70    0.85    YES
L0000279          0    0.40660E-05    487551.8 3765680.9    579.1    0.00    1.70    0.85    YES
L0000280          0    0.40660E-05    487555.0 3765679.1    579.5    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations OY   ***   18:13:06
                                                                                                                  PAGE   9
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

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            NUMBER  EMISSION RATE                  BASE    RELEASE   INIT.   INIT.   URBAN   EMISSION RATE
   SOURCE   PART.   (GRAMS/SEC)     X        Y      ELEV.   HEIGHT    SY      SZ      SOURCE  SCALAR VARY
     ID     CATS.                (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)            BY
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   L0000281     0   0.40660E-05  487558.3 3765677.4  579.8    0.00    1.70    0.85    YES
   L0000282     0   0.40660E-05  487561.5 3765675.7  580.1    0.00    1.70    0.85    YES
   L0000283     0   0.40660E-05  487564.7 3765673.9  580.2    0.00    1.70    0.85    YES
   L0000284     0   0.40660E-05  487567.9 3765672.2  580.2    0.00    1.70    0.85    YES
   L0000285     0   0.40660E-05  487571.1 3765670.5  580.1    0.00    1.70    0.85    YES
   L0000286     0   0.40660E-05  487574.3 3765668.7  579.9    0.00    1.70    0.85    YES
   L0000287     0   0.40660E-05  487577.5 3765666.8  579.6    0.00    1.70    0.85    YES
   L0000288     0   0.40660E-05  487580.6 3765664.9  579.5    0.00    1.70    0.85    YES
   L0000289     0   0.40660E-05  487583.7 3765663.0  579.2    0.00    1.70    0.85    YES
   L0000290     0   0.40660E-05  487586.8 3765661.1  578.9    0.00    1.70    0.85    YES
   L0000291     0   0.40660E-05  487590.0 3765659.2  578.9    0.00    1.70    0.85    YES
   L0000292     0   0.40660E-05  487593.1 3765657.3  579.3    0.00    1.70    0.85    YES
   L0000293     0   0.40660E-05  487596.2 3765655.4  579.6    0.00    1.70    0.85    YES
   L0000294     0   0.40660E-05  487599.4 3765653.6  579.9    0.00    1.70    0.85    YES
   L0000295     0   0.40660E-05  487602.5 3765651.7  580.1    0.00    1.70    0.85    YES
   L0000296     0   0.40660E-05  487605.6 3765649.8  580.1    0.00    1.70    0.85    YES
   L0000297     0   0.40660E-05  487608.8 3765647.9  580.1    0.00    1.70    0.85    YES
   L0000298     0   0.40660E-05  487612.0 3765646.2  580.1    0.00    1.70    0.85    YES
   L0000299     0   0.40660E-05  487615.3 3765644.6  580.2    0.00    1.70    0.85    YES
   L0000300     0   0.40660E-05  487618.6 3765643.0  580.2    0.00    1.70    0.85    YES
   L0000301     0   0.40660E-05  487621.9 3765641.4  580.1    0.00    1.70    0.85    YES
   L0000302     0   0.40660E-05  487625.2 3765639.8  580.1    0.00    1.70    0.85    YES
   L0000303     0   0.40660E-05  487628.5 3765638.2  579.9    0.00    1.70    0.85    YES
   L0000304     0   0.40660E-05  487631.8 3765636.6  579.6    0.00    1.70    0.85    YES
   L0000305     0   0.40660E-05  487635.1 3765635.1  579.5    0.00    1.70    0.85    YES
   L0000609     0   0.40790E-05  486606.8 3766048.4  528.6    0.00    1.70    0.85    YES
   L0000610     0   0.40790E-05  486610.3 3766047.3  528.8    0.00    1.70    0.85    YES
   L0000611     0   0.40790E-05  486613.8 3766046.2  528.9    0.00    1.70    0.85    YES
   L0000612     0   0.40790E-05  486617.3 3766045.0  529.0    0.00    1.70    0.85    YES
   L0000613     0   0.40790E-05  486620.7 3766043.9  529.1    0.00    1.70    0.85    YES
   L0000614     0   0.40790E-05  486624.2 3766042.8  529.2    0.00    1.70    0.85    YES
   L0000615     0   0.40790E-05  486627.7 3766041.6  529.4    0.00    1.70    0.85    YES
   L0000616     0   0.40790E-05  486631.2 3766040.5  529.5    0.00    1.70    0.85    YES
   L0000617     0   0.40790E-05  486634.6 3766039.3  529.7    0.00    1.70    0.85    YES
   L0000618     0   0.40790E-05  486638.1 3766038.2  529.8    0.00    1.70    0.85    YES
   L0000619     0   0.40790E-05  486641.6 3766037.1  530.0    0.00    1.70    0.85    YES
   L0000620     0   0.40790E-05  486645.1 3766035.9  530.1    0.00    1.70    0.85    YES
   L0000621     0   0.40790E-05  486648.5 3766034.8  530.3    0.00    1.70    0.85    YES
   L0000622     0   0.40790E-05  486652.0 3766033.6  530.5    0.00    1.70    0.85    YES
   L0000623     0   0.40790E-05  486655.5 3766032.5  530.6    0.00    1.70    0.85    YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                    *** VOLUME SOURCE DATA ***

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

        L0000624     0   0.40790E-05  486659.0 3766031.4  530.8   0.00    1.70    0.85     YES
        L0000625     0   0.40790E-05  486662.5 3766030.2  530.9   0.00    1.70    0.85     YES
        L0000626     0   0.40790E-05  486665.9 3766029.1  531.0   0.00    1.70    0.85     YES
        L0000627     0   0.40790E-05  486669.4 3766028.0  531.1   0.00    1.70    0.85     YES
        L0000628     0   0.40790E-05  486672.9 3766026.8  531.2   0.00    1.70    0.85     YES
        L0000629     0   0.40790E-05  486676.4 3766025.7  531.3   0.00    1.70    0.85     YES
        L0000630     0   0.40790E-05  486679.8 3766024.5  531.4   0.00    1.70    0.85     YES
        L0000631     0   0.40790E-05  486683.3 3766023.4  531.5   0.00    1.70    0.85     YES
        L0000632     0   0.40790E-05  486686.8 3766022.3  531.6   0.00    1.70    0.85     YES
        L0000633     0   0.40790E-05  486690.3 3766021.1  531.7   0.00    1.70    0.85     YES
        L0000634     0   0.40790E-05  486693.7 3766020.0  531.9   0.00    1.70    0.85     YES
        L0000635     0   0.40790E-05  486697.2 3766018.9  532.0   0.00    1.70    0.85     YES
        L0000636     0   0.40790E-05  486700.7 3766017.7  532.1   0.00    1.70    0.85     YES
        L0000637     0   0.40790E-05  486704.2 3766016.6  532.3   0.00    1.70    0.85     YES
        L0000638     0   0.40790E-05  486707.6 3766015.4  532.4   0.00    1.70    0.85     YES
        L0000639     0   0.40790E-05  486711.1 3766014.3  532.6   0.00    1.70    0.85     YES
        L0000640     0   0.40790E-05  486714.6 3766013.2  532.8   0.00    1.70    0.85     YES
        L0000641     0   0.40790E-05  486718.1 3766012.0  532.9   0.00    1.70    0.85     YES
        L0000642     0   0.40790E-05  486721.5 3766010.9  533.1   0.00    1.70    0.85     YES
        L0000643     0   0.40790E-05  486725.0 3766009.7  533.2   0.00    1.70    0.85     YES
        L0000644     0   0.40790E-05  486728.5 3766008.6  533.4   0.00    1.70    0.85     YES
        L0000645     0   0.40790E-05  486732.0 3766007.5  533.6   0.00    1.70    0.85     YES
        L0000646     0   0.40790E-05  486735.4 3766006.3  533.8   0.00    1.70    0.85     YES
        L0000647     0   0.40790E-05  486738.9 3766005.2  534.0   0.00    1.70    0.85     YES
        L0000648     0   0.40790E-05  486742.4 3766004.0  534.1   0.00    1.70    0.85     YES
        L0000649     0   0.40790E-05  486745.8 3766002.8  534.3   0.00    1.70    0.85     YES
        L0000650     0   0.40790E-05  486749.3 3766001.6  534.5   0.00    1.70    0.85     YES
        L0000651     0   0.40790E-05  486752.7 3766000.4  534.7   0.00    1.70    0.85     YES
        L0000652     0   0.40790E-05  486756.2 3765999.2  534.8   0.00    1.70    0.85     YES
        L0000653     0   0.40790E-05  486759.7 3765998.0  534.9   0.00    1.70    0.85     YES
        L0000654     0   0.40790E-05  486763.1 3765996.8  535.0   0.00    1.70    0.85     YES
        L0000655     0   0.40790E-05  486766.6 3765995.6  535.1   0.00    1.70    0.85     YES
        L0000656     0   0.40790E-05  486770.0 3765994.4  535.2   0.00    1.70    0.85     YES
        L0000657     0   0.40790E-05  486773.5 3765993.1  535.3   0.00    1.70    0.85     YES
        L0000658     0   0.40790E-05  486776.9 3765991.9  535.4   0.00    1.70    0.85     YES
        L0000659     0   0.40790E-05  486780.4 3765990.7  535.6   0.00    1.70    0.85     YES
        L0000660     0   0.40790E-05  486783.8 3765989.5  535.7   0.00    1.70    0.85     YES
        L0000661     0   0.40790E-05  486787.3 3765988.3  535.8   0.00    1.70    0.85     YES
        L0000662     0   0.40790E-05  486790.7 3765987.1  536.0   0.00    1.70    0.85     YES
        L0000663     0   0.40790E-05  486794.2 3765985.9  536.1   0.00    1.70    0.85     YES

        *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                    ***      08/11/21
        *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                    ***      18:13:06
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*** 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
L0000664	0	0.40790E-05	486797.6	3765984.7	536.3	0.00	1.70	0.85	YES	
L0000665	0	0.40790E-05	486801.1	3765983.4	536.4	0.00	1.70	0.85	YES	
L0000666	0	0.40790E-05	486804.5	3765982.2	536.6	0.00	1.70	0.85	YES	
L0000667	0	0.40790E-05	486808.0	3765981.0	536.8	0.00	1.70	0.85	YES	
L0000668	0	0.40790E-05	486811.4	3765979.8	537.0	0.00	1.70	0.85	YES	
L0000669	0	0.40790E-05	486814.9	3765978.6	537.1	0.00	1.70	0.85	YES	
L0000670	0	0.40790E-05	486818.3	3765977.4	537.3	0.00	1.70	0.85	YES	
L0000671	0	0.40790E-05	486821.8	3765976.2	537.5	0.00	1.70	0.85	YES	
L0000672	0	0.40790E-05	486825.2	3765975.0	537.7	0.00	1.70	0.85	YES	
L0000673	0	0.40790E-05	486828.7	3765973.8	537.9	0.00	1.70	0.85	YES	
L0000674	0	0.40790E-05	486832.1	3765972.5	538.0	0.00	1.70	0.85	YES	
L0000675	0	0.40790E-05	486835.6	3765971.3	538.2	0.00	1.70	0.85	YES	
L0000676	0	0.40790E-05	486839.0	3765970.1	538.4	0.00	1.70	0.85	YES	
L0000677	0	0.40790E-05	486842.5	3765969.0	538.6	0.00	1.70	0.85	YES	
L0000678	0	0.40790E-05	486846.0	3765967.9	538.7	0.00	1.70	0.85	YES	
L0000679	0	0.40790E-05	486849.5	3765966.8	538.8	0.00	1.70	0.85	YES	
L0000680	0	0.40790E-05	486852.9	3765965.6	538.9	0.00	1.70	0.85	YES	
L0000681	0	0.40790E-05	486856.4	3765964.5	539.0	0.00	1.70	0.85	YES	
L0000682	0	0.40790E-05	486859.9	3765963.4	539.1	0.00	1.70	0.85	YES	
L0000683	0	0.40790E-05	486863.4	3765962.3	539.2	0.00	1.70	0.85	YES	
L0000684	0	0.40790E-05	486866.9	3765961.1	539.3	0.00	1.70	0.85	YES	
L0000685	0	0.40790E-05	486870.3	3765960.0	539.4	0.00	1.70	0.85	YES	
L0000686	0	0.40790E-05	486873.8	3765958.9	539.6	0.00	1.70	0.85	YES	
L0000687	0	0.40790E-05	486877.3	3765957.8	539.7	0.00	1.70	0.85	YES	
L0000688	0	0.40790E-05	486880.8	3765956.6	539.8	0.00	1.70	0.85	YES	
L0000689	0	0.40790E-05	486884.3	3765955.5	540.0	0.00	1.70	0.85	YES	
L0000690	0	0.40790E-05	486887.8	3765954.4	540.1	0.00	1.70	0.85	YES	
L0000691	0	0.40790E-05	486891.2	3765953.3	540.3	0.00	1.70	0.85	YES	
L0000692	0	0.40790E-05	486894.7	3765952.1	540.4	0.00	1.70	0.85	YES	
L0000693	0	0.40790E-05	486898.2	3765951.0	540.6	0.00	1.70	0.85	YES	
L0000694	0	0.40790E-05	486901.7	3765949.9	540.7	0.00	1.70	0.85	YES	
L0000695	0	0.40790E-05	486905.2	3765948.8	540.9	0.00	1.70	0.85	YES	
L0000696	0	0.40790E-05	486908.6	3765947.6	541.1	0.00	1.70	0.85	YES	
L0000697	0	0.40790E-05	486912.1	3765946.5	541.2	0.00	1.70	0.85	YES	
L0000698	0	0.40790E-05	486915.6	3765945.4	541.4	0.00	1.70	0.85	YES	
L0000699	0	0.40790E-05	486919.1	3765944.3	541.6	0.00	1.70	0.85	YES	
L0000700	0	0.40790E-05	486922.6	3765943.1	541.8	0.00	1.70	0.85	YES	
L0000701	0	0.40790E-05	486926.0	3765942.0	541.9	0.00	1.70	0.85	YES	
L0000702	0	0.40790E-05	486929.5	3765940.9	542.1	0.00	1.70	0.85	YES	
L0000703	0	0.40790E-05	486933.0	3765939.8	542.3	0.00	1.70	0.85	YES	

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*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                        ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY         ***        18:13:06
                                                                                               PAGE  12
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                  *** VOLUME SOURCE DATA ***


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

  L0000704     0    0.40790E-05  486936.5 3765938.6  542.5     0.00    1.70     0.85     YES
  L0000705     0    0.40790E-05  486940.0 3765937.5  542.6     0.00    1.70     0.85     YES
  L0000706     0    0.40790E-05  486943.4 3765936.4  542.7     0.00    1.70     0.85     YES
  L0000707     0    0.40790E-05  486946.9 3765935.3  542.8     0.00    1.70     0.85     YES
  L0000708     0    0.40790E-05  486950.4 3765934.2  542.9     0.00    1.70     0.85     YES
  L0000709     0    0.40790E-05  486953.9 3765933.0  543.0     0.00    1.70     0.85     YES
  L0000710     0    0.40790E-05  486957.4 3765931.9  543.2     0.00    1.70     0.85     YES
  L0000711     0    0.40790E-05  486960.9 3765930.8  543.3     0.00    1.70     0.85     YES
  L0000712     0    0.40790E-05  486964.3 3765929.7  543.4     0.00    1.70     0.85     YES
  L0000713     0    0.40790E-05  486967.8 3765928.6  543.5     0.00    1.70     0.85     YES
  L0000714     0    0.40790E-05  486971.3 3765927.4  543.6     0.00    1.70     0.85     YES
  L0000715     0    0.40790E-05  486974.8 3765926.3  543.8     0.00    1.70     0.85     YES
  L0000716     0    0.40790E-05  486978.3 3765925.2  543.9     0.00    1.70     0.85     YES
  L0000717     0    0.40790E-05  486981.7 3765924.1  544.0     0.00    1.70     0.85     YES
  L0000718     0    0.40790E-05  486985.2 3765922.9  544.2     0.00    1.70     0.85     YES
  L0000719     0    0.40790E-05  486988.7 3765921.8  544.3     0.00    1.70     0.85     YES
  L0000720     0    0.40790E-05  486992.2 3765920.7  544.4     0.00    1.70     0.85     YES
  L0000721     0    0.40790E-05  486995.7 3765919.5  544.6     0.00    1.70     0.85     YES
  L0000722     0    0.40790E-05  486999.1 3765918.4  544.8     0.00    1.70     0.85     YES
  L0000723     0    0.40790E-05  487002.6 3765917.2  544.9     0.00    1.70     0.85     YES
  L0000724     0    0.40790E-05  487006.0 3765916.0  545.1     0.00    1.70     0.85     YES
  L0000725     0    0.40790E-05  487009.5 3765914.8  545.3     0.00    1.70     0.85     YES
  L0000726     0    0.40790E-05  487013.0 3765913.6  545.4     0.00    1.70     0.85     YES
  L0000727     0    0.40790E-05  487016.4 3765912.4  545.6     0.00    1.70     0.85     YES
  L0000728     0    0.40790E-05  487019.9 3765911.2  545.8     0.00    1.70     0.85     YES
  L0000729     0    0.40790E-05  487023.3 3765910.1  546.0     0.00    1.70     0.85     YES
  L0000730     0    0.40790E-05  487026.8 3765908.9  546.1     0.00    1.70     0.85     YES
  L0000731     0    0.40790E-05  487030.3 3765907.7  546.3     0.00    1.70     0.85     YES
  L0000732     0    0.40790E-05  487033.7 3765906.5  546.5     0.00    1.70     0.85     YES
  L0000733     0    0.40790E-05  487037.2 3765905.3  546.7     0.00    1.70     0.85     YES
  L0000734     0    0.40790E-05  487040.6 3765904.1  546.9     0.00    1.70     0.85     YES
  L0000735     0    0.40790E-05  487044.1 3765902.9  547.0     0.00    1.70     0.85     YES
  L0000736     0    0.40790E-05  487047.6 3765901.8  547.2     0.00    1.70     0.85     YES
  L0000737     0    0.40790E-05  487051.0 3765900.6  547.3     0.00    1.70     0.85     YES
  L0000738     0    0.40790E-05  487054.5 3765899.4  547.5     0.00    1.70     0.85     YES
  L0000739     0    0.40790E-05  487057.9 3765898.2  547.6     0.00    1.70     0.85     YES
  L0000740     0    0.40790E-05  487061.4 3765897.0  547.7     0.00    1.70     0.85     YES
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L0000741          0   0.40790E-05  487064.9 3765895.8   547.8      0.00     1.70     0.85     YES
L0000742          0   0.40790E-05  487068.3 3765894.6   547.9      0.00     1.70     0.85     YES
L0000743          0   0.40790E-05  487071.8 3765893.5   548.0      0.00     1.70     0.85     YES
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*** 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
L0000744	0	0.40790E-05	487075.2	3765892.3	548.1	0.00	1.70	0.85	YES	
L0000745	0	0.40790E-05	487078.7	3765891.1	548.2	0.00	1.70	0.85	YES	
L0000746	0	0.40790E-05	487082.2	3765889.9	548.3	0.00	1.70	0.85	YES	
L0000747	0	0.40790E-05	487085.6	3765888.7	548.4	0.00	1.70	0.85	YES	
L0000748	0	0.40790E-05	487089.1	3765887.5	548.6	0.00	1.70	0.85	YES	
L0000749	0	0.40790E-05	487092.5	3765886.3	548.7	0.00	1.70	0.85	YES	
L0000750	0	0.40790E-05	487096.0	3765885.1	548.9	0.00	1.70	0.85	YES	
L0000751	0	0.40790E-05	487099.5	3765884.0	549.0	0.00	1.70	0.85	YES	
L0000752	0	0.40790E-05	487102.9	3765882.8	549.2	0.00	1.70	0.85	YES	
L0000753	0	0.40790E-05	487106.4	3765881.6	549.3	0.00	1.70	0.85	YES	
L0000754	0	0.40790E-05	487109.8	3765880.4	549.5	0.00	1.70	0.85	YES	
L0000755	0	0.40790E-05	487113.3	3765879.2	549.7	0.00	1.70	0.85	YES	
L0000756	0	0.40790E-05	487116.8	3765878.0	549.9	0.00	1.70	0.85	YES	
L0000757	0	0.40790E-05	487120.1	3765876.6	550.1	0.00	1.70	0.85	YES	
L0000758	0	0.40790E-05	487123.4	3765875.1	550.3	0.00	1.70	0.85	YES	
L0000759	0	0.40790E-05	487126.8	3765873.6	550.5	0.00	1.70	0.85	YES	
L0000760	0	0.40790E-05	487130.1	3765872.1	550.7	0.00	1.70	0.85	YES	
L0000761	0	0.40790E-05	487133.5	3765870.6	550.8	0.00	1.70	0.85	YES	
L0000762	0	0.40790E-05	487136.8	3765869.1	550.9	0.00	1.70	0.85	YES	
L0000763	0	0.40790E-05	487140.1	3765867.6	551.1	0.00	1.70	0.85	YES	
L0000764	0	0.40790E-05	487143.5	3765866.1	551.4	0.00	1.70	0.85	YES	
L0000765	0	0.40790E-05	487146.8	3765864.6	551.7	0.00	1.70	0.85	YES	
L0000766	0	0.40790E-05	487150.1	3765863.1	552.0	0.00	1.70	0.85	YES	
L0000767	0	0.40790E-05	487153.5	3765861.6	552.2	0.00	1.70	0.85	YES	
L0000768	0	0.40790E-05	487156.8	3765860.1	552.5	0.00	1.70	0.85	YES	
L0000769	0	0.40790E-05	487160.2	3765858.6	552.6	0.00	1.70	0.85	YES	
L0000770	0	0.40790E-05	487163.5	3765857.2	552.8	0.00	1.70	0.85	YES	
L0000771	0	0.40790E-05	487166.8	3765855.7	552.9	0.00	1.70	0.85	YES	
L0000772	0	0.40790E-05	487170.2	3765854.2	553.1	0.00	1.70	0.85	YES	
L0000773	0	0.40790E-05	487173.5	3765852.7	553.3	0.00	1.70	0.85	YES	
L0000774	0	0.40790E-05	487176.9	3765851.2	553.4	0.00	1.70	0.85	YES	
L0000775	0	0.40790E-05	487180.2	3765849.7	553.5	0.00	1.70	0.85	YES	
L0000776	0	0.40790E-05	487183.5	3765848.2	553.6	0.00	1.70	0.85	YES	
L0000777	0	0.40790E-05	487186.9	3765846.7	553.6	0.00	1.70	0.85	YES	

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L0000778          0   0.40790E-05  487190.2 3765845.2   553.6    0.00    1.70    0.85    YES
L0000779          0   0.40790E-05  487193.6 3765843.7   553.8    0.00    1.70    0.85    YES
L0000780          0   0.40790E-05  487196.9 3765842.2   553.9    0.00    1.70    0.85    YES
L0000781          0   0.40790E-05  487200.2 3765840.6   554.0    0.00    1.70    0.85    YES
L0000782          0   0.40790E-05  487203.5 3765839.0   554.2    0.00    1.70    0.85    YES
L0000783          0   0.40790E-05  487206.8 3765837.4   554.3    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                              ***        18:13:06
                                                                                                                    PAGE  14
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                               *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000784	0	0.40790E-05	487210.1	3765835.8	554.3	0.00	1.70	0.85	YES	
L0000785	0	0.40790E-05	487213.3	3765834.2	554.4	0.00	1.70	0.85	YES	
L0000786	0	0.40790E-05	487216.6	3765832.6	554.5	0.00	1.70	0.85	YES	
L0000787	0	0.40790E-05	487219.9	3765831.0	554.6	0.00	1.70	0.85	YES	
L0000788	0	0.40790E-05	487223.2	3765829.4	554.7	0.00	1.70	0.85	YES	
L0000789	0	0.40790E-05	487226.5	3765827.8	554.9	0.00	1.70	0.85	YES	
L0000790	0	0.40790E-05	487229.8	3765826.2	555.0	0.00	1.70	0.85	YES	
L0000791	0	0.40790E-05	487233.1	3765824.6	555.1	0.00	1.70	0.85	YES	
L0000792	0	0.40790E-05	487236.4	3765823.0	555.2	0.00	1.70	0.85	YES	
L0000793	0	0.40790E-05	487239.7	3765821.4	555.4	0.00	1.70	0.85	YES	
L0000794	0	0.40790E-05	487243.0	3765819.8	555.5	0.00	1.70	0.85	YES	
L0000795	0	0.40790E-05	487246.2	3765818.2	555.7	0.00	1.70	0.85	YES	
L0000796	0	0.40790E-05	487249.5	3765816.6	555.9	0.00	1.70	0.85	YES	
L0000797	0	0.40790E-05	487252.8	3765815.0	556.1	0.00	1.70	0.85	YES	
L0000798	0	0.40790E-05	487256.1	3765813.4	556.2	0.00	1.70	0.85	YES	
L0000799	0	0.40790E-05	487259.4	3765811.9	556.4	0.00	1.70	0.85	YES	
L0000800	0	0.40790E-05	487262.7	3765810.3	556.6	0.00	1.70	0.85	YES	
L0000801	0	0.40790E-05	487266.0	3765808.7	556.8	0.00	1.70	0.85	YES	
L0000802	0	0.40790E-05	487269.3	3765807.1	556.9	0.00	1.70	0.85	YES	
L0000803	0	0.40790E-05	487272.6	3765805.5	557.2	0.00	1.70	0.85	YES	
L0000804	0	0.40790E-05	487275.9	3765803.9	557.4	0.00	1.70	0.85	YES	
L0000805	0	0.40790E-05	487279.1	3765802.3	557.5	0.00	1.70	0.85	YES	
L0000806	0	0.40790E-05	487282.4	3765800.6	557.7	0.00	1.70	0.85	YES	
L0000807	0	0.40790E-05	487285.6	3765798.8	557.9	0.00	1.70	0.85	YES	
L0000808	0	0.40790E-05	487288.7	3765797.0	558.0	0.00	1.70	0.85	YES	
L0000809	0	0.40790E-05	487291.9	3765795.1	558.2	0.00	1.70	0.85	YES	
L0000810	0	0.40790E-05	487295.1	3765793.3	558.3	0.00	1.70	0.85	YES	
L0000811	0	0.40790E-05	487298.2	3765791.4	558.5	0.00	1.70	0.85	YES	
L0000812	0	0.40790E-05	487301.4	3765789.6	558.6	0.00	1.70	0.85	YES	
L0000813	0	0.40790E-05	487304.5	3765787.7	558.8	0.00	1.70	0.85	YES	
L0000814	0	0.40790E-05	487307.7	3765785.9	558.9	0.00	1.70	0.85	YES	

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L0000815         0  0.40790E-05  487310.9 3765784.1   559.0   0.00   1.70   0.85   YES
L0000816         0  0.40790E-05  487314.0 3765782.2   559.2   0.00   1.70   0.85   YES
L0000817         0  0.40790E-05  487317.2 3765780.4   559.4   0.00   1.70   0.85   YES
L0000818         0  0.40790E-05  487320.3 3765778.5   559.6   0.00   1.70   0.85   YES
L0000819         0  0.40790E-05  487323.5 3765776.7   559.8   0.00   1.70   0.85   YES
L0000820         0  0.40790E-05  487326.7 3765774.9   560.1   0.00   1.70   0.85   YES
L0000821         0  0.40790E-05  487329.8 3765773.0   560.3   0.00   1.70   0.85   YES
L0000822         0  0.40790E-05  487333.0 3765771.2   560.5   0.00   1.70   0.85   YES
L0000823         0  0.40790E-05  487336.1 3765769.3   560.7   0.00   1.70   0.85   YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000824	0	0.40790E-05	487339.3	3765767.5	560.9	0.00	1.70	0.85	YES	
L0000825	0	0.40790E-05	487342.5	3765765.7	561.0	0.00	1.70	0.85	YES	
L0000826	0	0.40790E-05	487345.7	3765763.9	561.2	0.00	1.70	0.85	YES	
L0000827	0	0.40790E-05	487348.8	3765762.1	561.4	0.00	1.70	0.85	YES	
L0000828	0	0.40790E-05	487352.0	3765760.3	561.6	0.00	1.70	0.85	YES	
L0000829	0	0.40790E-05	487355.2	3765758.4	561.7	0.00	1.70	0.85	YES	
L0000830	0	0.40790E-05	487358.4	3765756.6	561.8	0.00	1.70	0.85	YES	
L0000831	0	0.40790E-05	487361.5	3765754.8	561.9	0.00	1.70	0.85	YES	
L0000832	0	0.40790E-05	487364.7	3765753.0	561.8	0.00	1.70	0.85	YES	
L0000833	0	0.40790E-05	487367.9	3765751.2	562.0	0.00	1.70	0.85	YES	
L0000834	0	0.40790E-05	487371.1	3765749.4	562.1	0.00	1.70	0.85	YES	
L0000835	0	0.40790E-05	487374.3	3765747.6	562.4	0.00	1.70	0.85	YES	
L0000836	0	0.40790E-05	487377.4	3765745.8	562.6	0.00	1.70	0.85	YES	
L0000837	0	0.40790E-05	487380.6	3765743.9	562.9	0.00	1.70	0.85	YES	
L0000838	0	0.40790E-05	487383.8	3765742.1	563.1	0.00	1.70	0.85	YES	
L0000839	0	0.40790E-05	487387.0	3765740.3	563.3	0.00	1.70	0.85	YES	
L0000840	0	0.40790E-05	487390.1	3765738.5	563.5	0.00	1.70	0.85	YES	
L0000841	0	0.40790E-05	487393.3	3765736.7	563.7	0.00	1.70	0.85	YES	
L0000842	0	0.40790E-05	487396.5	3765734.9	563.8	0.00	1.70	0.85	YES	
L0000843	0	0.40790E-05	487399.7	3765733.1	564.1	0.00	1.70	0.85	YES	
L0000844	0	0.40790E-05	487402.9	3765731.3	564.4	0.00	1.70	0.85	YES	
L0000845	0	0.40790E-05	487406.0	3765729.4	564.5	0.00	1.70	0.85	YES	
L0000846	0	0.40790E-05	487409.2	3765727.6	564.6	0.00	1.70	0.85	YES	
L0000847	0	0.40790E-05	487412.4	3765725.9	564.7	0.00	1.70	0.85	YES	
L0000848	0	0.40790E-05	487415.7	3765724.2	564.7	0.00	1.70	0.85	YES	
L0000849	0	0.40790E-05	487418.9	3765722.5	564.7	0.00	1.70	0.85	YES	
L0000850	0	0.40790E-05	487422.1	3765720.8	564.7	0.00	1.70	0.85	YES	
L0000851	0	0.40790E-05	487425.4	3765719.1	565.0	0.00	1.70	0.85	YES	

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L0000852        0    0.40790E-05   487428.6 3765717.4   565.2     0.00      1.70      0.85      YES
L0000853        0    0.40790E-05   487431.9 3765715.8   565.5     0.00      1.70      0.85      YES
L0000854        0    0.40790E-05   487435.1 3765714.1   565.7     0.00      1.70      0.85      YES
L0000855        0    0.40790E-05   487438.4 3765712.4   566.0     0.00      1.70      0.85      YES
L0000856        0    0.40790E-05   487441.6 3765710.7   566.2     0.00      1.70      0.85      YES
L0000857        0    0.40790E-05   487444.9 3765709.0   566.4     0.00      1.70      0.85      YES
L0000858        0    0.40790E-05   487448.1 3765707.3   566.6     0.00      1.70      0.85      YES
L0000859        0    0.40790E-05   487451.4 3765705.6   566.9     0.00      1.70      0.85      YES
L0000860        0    0.40790E-05   487454.6 3765704.0   567.2     0.00      1.70      0.85      YES
L0000861        0    0.40790E-05   487457.9 3765702.3   567.4     0.00      1.70      0.85      YES
L0000862        0    0.40790E-05   487461.1 3765700.6   567.6     0.00      1.70      0.85      YES
L0000863        0    0.40790E-05   487464.3 3765698.9   567.7     0.00      1.70      0.85      YES
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*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations OY   ***   18:13:06
                                                                                                                 PAGE 16
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
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                                      *** VOLUME SOURCE DATA ***

| SOURCE ID | NUMBER PART. CATS. | EMISSION RATE (GRAMS/SEC) | X (METERS) | Y (METERS) | BASE ELEV. (METERS) | RELEASE HEIGHT (METERS) | INIT. SY (METERS) | INIT. SZ (METERS) | URBAN SOURCE | EMISSION RATE SCALAR VARY BY |
|---|---|---|---|---|---|---|---|---|---|---|
| L0000864 | 0 | 0.40790E-05 | 487467.6 | 3765697.2 | 567.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000865 | 0 | 0.40790E-05 | 487470.8 | 3765695.5 | 567.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000866 | 0 | 0.40790E-05 | 487474.1 | 3765693.9 | 567.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000867 | 0 | 0.40790E-05 | 487477.3 | 3765692.2 | 567.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000868 | 0 | 0.40790E-05 | 487480.6 | 3765690.5 | 567.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000869 | 0 | 0.40790E-05 | 487483.8 | 3765688.8 | 568.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000870 | 0 | 0.40790E-05 | 487487.1 | 3765687.1 | 568.3 | 0.00 | 1.70 | 0.85 | YES | |
| L0000871 | 0 | 0.40790E-05 | 487490.3 | 3765685.4 | 568.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000872 | 0 | 0.40790E-05 | 487493.6 | 3765683.8 | 568.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000873 | 0 | 0.40790E-05 | 487496.8 | 3765682.1 | 568.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000874 | 0 | 0.40790E-05 | 487500.1 | 3765680.4 | 569.2 | 0.00 | 1.70 | 0.85 | YES | |
| L0000875 | 0 | 0.40790E-05 | 487503.3 | 3765678.7 | 569.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000876 | 0 | 0.40790E-05 | 487506.6 | 3765677.0 | 569.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000877 | 0 | 0.40790E-05 | 487509.8 | 3765675.3 | 570.1 | 0.00 | 1.70 | 0.85 | YES | |
| L0000878 | 0 | 0.40790E-05 | 487513.1 | 3765673.7 | 570.4 | 0.00 | 1.70 | 0.85 | YES | |
| L0000879 | 0 | 0.40790E-05 | 487516.3 | 3765672.0 | 570.5 | 0.00 | 1.70 | 0.85 | YES | |
| L0000880 | 0 | 0.40790E-05 | 487519.5 | 3765670.3 | 570.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000881 | 0 | 0.40790E-05 | 487522.8 | 3765668.6 | 570.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000882 | 0 | 0.40790E-05 | 487526.0 | 3765666.9 | 570.8 | 0.00 | 1.70 | 0.85 | YES | |
| L0000883 | 0 | 0.40790E-05 | 487529.3 | 3765665.2 | 570.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000884 | 0 | 0.40790E-05 | 487532.5 | 3765663.4 | 570.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000885 | 0 | 0.40790E-05 | 487535.7 | 3765661.6 | 570.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000886 | 0 | 0.40790E-05 | 487538.9 | 3765659.9 | 570.7 | 0.00 | 1.70 | 0.85 | YES | |
| L0000887 | 0 | 0.40790E-05 | 487542.1 | 3765658.1 | 570.9 | 0.00 | 1.70 | 0.85 | YES | |
| L0000888 | 0 | 0.40790E-05 | 487545.3 | 3765656.3 | 571.1 | 0.00 | 1.70 | 0.85 | YES | |

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L0000889      0   0.40790E-05  487548.5 3765654.6   571.2    0.00     1.70    0.85    YES
L0000890      0   0.40790E-05  487551.7 3765652.8   571.5    0.00     1.70    0.85    YES
L0000891      0   0.40790E-05  487554.9 3765651.0   571.8    0.00     1.70    0.85    YES
L0000892      0   0.40790E-05  487558.1 3765649.3   572.1    0.00     1.70    0.85    YES
L0000893      0   0.40790E-05  487561.3 3765647.5   572.4    0.00     1.70    0.85    YES
L0000894      0   0.40790E-05  487564.5 3765645.7   572.7    0.00     1.70    0.85    YES
L0000895      0   0.40790E-05  487567.7 3765644.0   572.9    0.00     1.70    0.85    YES
L0000896      0   0.40790E-05  487570.9 3765642.2   573.0    0.00     1.70    0.85    YES
L0000897      0   0.40790E-05  487574.1 3765640.4   573.2    0.00     1.70    0.85    YES
L0000898      0   0.40790E-05  487577.3 3765638.7   573.4    0.00     1.70    0.85    YES
L0000899      0   0.40790E-05  487580.6 3765637.1   573.6    0.00     1.70    0.85    YES
L0000900      0   0.40790E-05  487583.9 3765635.4   573.7    0.00     1.70    0.85    YES
L0000901      0   0.40790E-05  487587.1 3765633.8   573.7    0.00     1.70    0.85    YES
L0000902      0   0.40790E-05  487590.4 3765632.2   573.7    0.00     1.70    0.85    YES
L0000903      0   0.40790E-05  487593.7 3765630.5   573.6    0.00     1.70    0.85    YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000904	0	0.40790E-05	487596.9	3765628.9	573.5	0.00	1.70	0.85	YES	
L0000905	0	0.40790E-05	487600.2	3765627.2	573.6	0.00	1.70	0.85	YES	
L0000906	0	0.40790E-05	487603.5	3765625.6	573.9	0.00	1.70	0.85	YES	
L0000907	0	0.40790E-05	487606.8	3765624.0	574.1	0.00	1.70	0.85	YES	
L0000908	0	0.40790E-05	487610.0	3765622.3	574.4	0.00	1.70	0.85	YES	
L0000909	0	0.40790E-05	487613.3	3765620.7	574.7	0.00	1.70	0.85	YES	
L0000910	0	0.40790E-05	487616.6	3765619.1	574.9	0.00	1.70	0.85	YES	
L0000911	0	0.40790E-05	487619.8	3765617.4	575.2	0.00	1.70	0.85	YES	
L0000912	0	0.40790E-05	487623.1	3765615.8	575.4	0.00	1.70	0.85	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs
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        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    ,

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        L0000776    , L0000777    , L0000778    , L0000779    , L0000780    , L0000781    , L0000782    , L0000783    ,
```

                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs

```
      ----------                                            ----------

        L0000784     , L0000785    , L0000786    , L0000787    , L0000788    , L0000789    , L0000790    , L0000791    ,

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        L0000800     , L0000801    , L0000802    , L0000803    , L0000804    , L0000805    , L0000806    , L0000807    ,

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        L0000816     , L0000817    , L0000818    , L0000819    , L0000820    , L0000821    , L0000822    , L0000823    ,

        L0000824     , L0000825    , L0000826    , L0000827    , L0000828    , L0000829    , L0000830    , L0000831    ,

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        L0000872     , L0000873    , L0000874    , L0000875    , L0000876    , L0000877    , L0000878    , L0000879    ,

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        L0000896     , L0000897    , L0000898    , L0000899    , L0000900    , L0000901    , L0000902    , L0000903    ,

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        L0000912     ,
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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


          2035210.   L0000001    , L0000002    , L0000003    , L0000004    , L0000005    , L0000006    , L0000007    ,
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       L0000057     , L0000058     , L0000059     , L0000060     , L0000061     , L0000062     , L0000063     , L0000064     ,

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       L0000073     , L0000074     , L0000075     , L0000076     , L0000077     , L0000078     , L0000079     , L0000080     ,

       L0000081     , L0000082     , L0000083     , L0000084     , L0000085     , L0000086     , L0000087     , L0000088     ,

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       L0000113     , L0000114     , L0000115     , L0000116     , L0000117     , L0000118     , L0000119     , L0000120     ,

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       L0000145     , L0000146     , L0000147     , L0000148     , L0000149     , L0000150     , L0000151     , L0000152     ,

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*** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

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

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 URBAN ID   URBAN POP                              SOURCE IDs
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       L0000169      , L0000170     , L0000171     , L0000172     , L0000173     , L0000174     , L0000175     , L0000176     ,

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       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     ,

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       L0000616      , L0000617     , L0000618     , L0000619     , L0000620     , L0000621     , L0000622     , L0000623     ,
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 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                             ***      08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                             ***      18:13:06
                                                                                                                 PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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

  URBAN ID    URBAN POP                                   SOURCE IDs
  --------    ---------                                   ----------
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```
        L0000624    , L0000625    , L0000626    , L0000627    , L0000628    , L0000629    , L0000630    , L0000631    ,

        L0000632    , L0000633    , L0000634    , L0000635    , L0000636    , L0000637    , L0000638    , L0000639    ,

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        L0000696    , L0000697    , L0000698    , L0000699    , L0000700    , L0000701    , L0000702    , L0000703    ,

        L0000704    , L0000705    , L0000706    , L0000707    , L0000708    , L0000709    , L0000710    , L0000711    ,

        L0000712    , L0000713    , L0000714    , L0000715    , L0000716    , L0000717    , L0000718    , L0000719    ,

        L0000720    , L0000721    , L0000722    , L0000723    , L0000724    , 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    ,

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        L0000776    , L0000777    , L0000778    , L0000779    , L0000780    , L0000781    , L0000782    , L0000783    ,
```

*** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

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

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

```
      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    , 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    ,

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      L0000912    ,
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*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

```
   486627.2,  486677.2,  486727.2,  486777.2,  486827.2,  486877.2,  486927.2,  486977.2,  487027.2,  487077.2,
   487127.2,  487177.2,  487227.2,  487277.2,  487327.2,  487377.2,  487427.2,  487477.2,  487527.2,  487577.2,
   487627.2,
```

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

     3765628.5, 3765678.5, 3765728.5, 3765778.5, 3765828.5, 3765878.5, 3765928.5, 3765978.5, 3766028.5, 3766078.5,
     3766128.5, 3766178.5, 3766228.5, 3766278.5, 3766328.5, 3766378.5, 3766428.5, 3766478.5, 3766528.5, 3766578.5,
     3766628.5,
```

```
*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                          ***      08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations OY                          ***      18:13:06
                                                                                                              PAGE  27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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


                                * ELEVATION HEIGHTS IN METERS *


     Y-COORD  |                                        X-COORD (METERS)
     (METERS) |   486627.18    486677.18    486727.18    486777.18    486827.18    486877.18    486927.18    486977.18    487027.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |      544.20       545.30       544.90       547.20       550.40       554.20       558.10       558.20       556.00
   3766578.46 |      548.60       552.30       553.20       550.10       551.10       556.50       559.20       561.60       564.60
   3766528.46 |      551.20       554.10       555.80       556.00       554.60       555.90       558.90       561.50       565.40
   3766478.46 |      550.00       553.70       554.60       556.80       559.50       561.20       561.40       563.40       564.50
   3766428.46 |      549.50       550.50       551.80       552.00       554.70       560.20       564.40       563.80       558.40
   3766378.46 |      548.90       550.20       548.70       546.10       549.70       552.50       554.80       554.10       554.10
   3766328.46 |      544.90       548.20       546.60       543.30       544.40       546.10       547.80       551.20       555.30
   3766278.46 |      542.10       543.90       543.30       541.90       541.60       545.30       552.20       559.30       563.90
   3766228.46 |      538.30       539.20       540.10       539.50       543.20       548.20       554.10       560.70       569.10
   3766178.46 |      529.40       533.30       536.00       539.10       544.60       553.20       563.20       566.40       564.40
   3766128.46 |      527.10       530.90       533.50       541.80       554.20       564.90       567.50       560.40       562.80
   3766078.46 |      527.50       529.40       531.80       542.90       552.80       554.70       555.40       552.50       553.40
   3766028.46 |      530.00       531.30       532.30       534.90       540.10       543.10       546.30       547.40       550.50
   3765978.46 |      532.50       531.30       533.30       535.70       537.60       539.20       541.10       543.60       547.20
   3765928.46 |      548.90       538.10       534.90       535.70       537.80       540.00       542.10       543.80       545.10
   3765878.46 |      567.50       554.20       542.70       539.70       540.60       542.50       543.50       546.10       548.70
   3765828.46 |      573.70       561.60       549.80       553.60       558.90       551.90       555.90       560.80       572.20
   3765778.46 |      575.00       574.30       566.80       568.70       575.50       567.00       563.50       575.00       581.50
   3765728.46 |      574.40       576.50       577.70       580.90       585.60       582.20       578.20       583.70       592.00
   3765678.46 |      581.00       578.80       579.80       583.50       587.90       590.50       592.20       594.60       598.70
   3765628.46 |      589.60       588.90       582.20       586.30       591.10       593.20       594.80       596.80       601.00
```

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*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                          ***      08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations OY                          ***      18:13:06
                                                                                                              PAGE  28
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                        *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***


                                * ELEVATION HEIGHTS IN METERS *
```

Y-COORD (METERS)	487077.18	487127.18	487177.18	487227.18	487277.18	487327.18	487377.18	487427.18	487477.18
3766628.46	554.80	556.50	560.60	564.70	566.90	568.10	569.60	572.00	574.30
3766578.46	564.30	560.70	560.30	564.00	568.50	571.20	572.40	574.30	576.70
3766528.46	568.30	568.90	567.10	565.00	566.80	572.00	574.10	576.40	579.30
3766478.46	564.10	568.30	570.70	570.80	568.10	570.90	574.60	577.70	582.00
3766428.46	557.60	561.10	565.40	571.50	573.20	575.60	578.20	581.30	590.40
3766378.46	560.70	563.00	569.20	576.20	580.20	585.80	591.00	592.80	592.90
3766328.46	562.50	569.60	572.90	582.10	590.20	594.50	592.50	596.20	599.70
3766278.46	566.00	574.20	585.00	589.60	595.40	589.20	584.10	589.70	591.00
3766228.46	573.80	578.10	588.60	582.90	585.00	581.70	577.70	581.80	582.80
3766178.46	572.80	579.70	582.40	577.30	577.30	574.20	573.10	577.10	583.60
3766128.46	570.90	571.10	576.80	571.80	569.40	569.10	571.50	578.60	588.50
3766078.46	557.60	562.50	570.70	565.30	565.60	567.90	571.00	574.80	581.40
3766028.46	553.70	556.90	561.10	559.60	561.60	568.60	580.20	581.30	579.80
3765978.46	550.10	554.90	558.40	557.30	563.80	572.30	580.80	593.60	598.00
3765928.46	547.20	550.50	556.40	557.40	570.10	584.80	590.90	598.40	611.40
3765878.46	548.90	550.20	555.20	554.80	562.60	576.90	580.70	594.40	605.10
3765828.46	570.60	560.70	555.30	554.90	557.90	563.90	574.50	586.80	602.20
3765778.46	590.70	580.80	565.10	558.80	557.90	560.10	566.60	580.40	601.40
3765728.46	594.90	582.90	569.60	562.80	559.40	560.00	562.60	566.50	576.00
3765678.46	600.80	595.30	579.00	569.40	567.30	562.00	561.90	564.80	567.50
3765628.46	602.80	597.50	580.20	575.40	577.30	575.80	564.50	564.20	566.00

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	487527.18	487577.18	487627.18
3766628.46	575.90	577.20	579.40
3766578.46	578.80	580.50	582.70
3766528.46	581.80	583.90	586.90
3766478.46	585.50	588.20	593.90
3766428.46	596.40	591.70	600.40
3766378.46	600.80	599.00	598.00
3766328.46	598.80	603.10	602.00
3766278.46	593.70	594.50	605.50
3766228.46	586.00	589.60	596.50
3766178.46	591.20	596.00	594.60
3766128.46	598.70	603.50	608.30

```
 3766078.46 |       588.40      595.50      609.30
 3766028.46 |       583.20      595.20      603.70
 3765978.46 |       589.20      589.40      595.70
 3765928.46 |       604.20      602.40      595.90
 3765878.46 |       617.00      620.70      615.80
 3765828.46 |       618.90      616.80      626.10
 3765778.46 |       601.20      607.60      633.60
 3765728.46 |       586.20      611.70      619.10
 3765678.46 |       572.80      586.30      596.40
 3765628.46 |       569.10      572.30      576.40
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

                              * HILL HEIGHT SCALES IN METERS *

```
   Y-COORD  |                                       X-COORD (METERS)
   (METERS) |    486627.18    486677.18    486727.18    486777.18    486827.18    486877.18    486927.18    486977.18    487027.18
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3766628.46 |       555.40       555.70       556.30       555.20       550.40       554.20       558.10       564.30       569.00
 3766578.46 |       548.60       552.30       555.70       559.60       559.90       556.50       559.20       561.60       564.60
 3766528.46 |       551.20       554.10       555.80       556.00       563.50       563.70       558.90       561.50       565.40
 3766478.46 |       550.00       553.70       554.60       556.80       559.50       563.50       561.40       563.40       596.40
 3766428.46 |       549.50       550.50       551.80       563.50       563.80       563.80       565.40       563.80       596.40
 3766378.46 |       548.90       550.20       551.50       590.00       595.20       596.40       596.40       596.40       600.20
 3766328.46 |       544.90       551.70       551.70       596.40       596.40       596.40       596.40       599.90       600.20
 3766278.46 |       542.10       551.70       590.00       596.40       596.40       637.60       596.40       596.40       596.40
 3766228.46 |       566.60       589.10       595.20       652.40       652.40       596.40       596.40       596.40       595.20
 3766178.46 |       652.40       652.40       652.40       652.40       652.40       595.20       589.10       590.00       596.40
 3766128.46 |       655.00       655.00       655.00       652.40       569.30       566.60       567.50       637.60       652.40
 3766078.46 |       655.00       667.30       671.50       654.70       652.40       652.40       652.40       667.30       671.50
 3766028.46 |       655.00       668.60       671.50       671.50       671.50       671.50       671.50       671.50       671.50
 3765978.46 |       655.00       671.50       671.50       671.50       671.50       671.50       671.50       671.50       671.50
 3765928.46 |       652.40       655.00       671.50       671.50       671.50       671.50       671.50       671.50       671.50
 3765878.46 |       574.70       652.40       671.50       671.50       671.50       671.50       671.50       671.50       671.50
 3765828.46 |       573.70       606.20       655.00       655.00       655.00       671.50       671.50       671.50       667.30
 3765778.46 |       588.60       589.70       610.60       652.40       607.90       655.00       671.50       655.00       655.00
 3765728.46 |       594.40       593.10       588.70       588.00       587.10       609.80       655.00       654.70       652.40
 3765678.46 |       591.40       595.00       595.00       591.40       587.90       590.50       592.20       594.60       598.70
 3765628.46 |       589.60       588.90       597.00       592.50       591.10       593.20       594.80       607.90       602.20
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

                              * HILL HEIGHT SCALES IN METERS *

     Y-COORD  |                                    X-COORD (METERS)
     (METERS) |    487077.18    487127.18    487177.18    487227.18    487277.18    487327.18    487377.18    487427.18    487477.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |       596.40       596.40       596.40       564.70       566.90       601.00       609.90       616.50       616.70
   3766578.46 |       568.00       596.40       600.80       601.00       601.00       601.90       609.90       616.50       616.70
   3766528.46 |       568.30       568.90       596.40       601.90       604.20       604.20       609.90       616.50       616.70
   3766478.46 |       596.40       596.40       596.40       600.20       605.20       609.90       614.50       616.50       616.50
   3766428.46 |       600.20       600.80       601.00       600.80       601.90       604.20       606.80       609.90       604.20
   3766378.46 |       599.90       600.80       600.20       599.90       599.90       599.90       599.90       600.20       604.20
   3766328.46 |       599.90       596.40       596.40       596.40       596.40       594.50       599.90       599.90       599.70
   3766278.46 |       596.40       596.40       595.20       595.20       595.40       596.40       600.80       600.80       608.90
   3766228.46 |       595.20       596.00       588.60       596.40       596.40       637.60       650.80       650.80       660.00
   3766178.46 |       595.20       590.00       590.00       637.60       637.60       660.00       660.00       660.00       660.00
   3766128.46 |       590.00       637.60       637.60       650.80       660.00       668.60       668.60       660.00       660.00
   3766078.46 |       668.60       667.30       652.40       671.50       671.50       671.50       671.50       671.50       667.30
   3766028.46 |       671.50       671.50       671.50       671.50       671.50       671.50       668.60       668.60       671.50
   3765978.46 |       671.50       671.50       671.50       671.50       671.50       671.50       671.50       660.00       660.00
   3765928.46 |       671.50       671.50       671.50       671.50       671.50       668.60       660.00       650.80       637.60
   3765878.46 |       671.50       671.50       671.50       671.50       671.50       671.50       671.50       668.60       650.80
   3765828.46 |       671.50       671.50       671.50       671.50       671.50       671.50       671.50       671.50       668.60
   3765778.46 |       652.40       671.50       671.50       671.50       671.50       671.50       671.50       671.50       671.50
   3765728.46 |       652.40       671.50       671.50       671.50       671.50       671.50       671.50       671.50       671.50
   3765678.46 |       652.40       655.00       671.50       671.50       671.50       671.50       671.50       671.50       671.50
   3765628.46 |       652.40       655.00       671.50       671.50       671.50       671.50       671.50       671.50       671.50

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                               ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                               ***        18:13:06
                                                                                                                     PAGE  32
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

                              * HILL HEIGHT SCALES IN METERS *

     Y-COORD  |                                    X-COORD (METERS)
     (METERS) |    487527.18    487577.18    487627.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |       617.40       618.70       618.70
   3766578.46 |       617.40       618.70       619.50
   3766528.46 |       617.40       618.70       618.70
   3766478.46 |       617.40       617.40       617.40
   3766428.46 |       600.30       617.40       611.50
   3766378.46 |       600.80       604.20       617.40
   3766328.46 |       604.20       604.20       613.90
   3766278.46 |       627.70       632.70       608.90
```

```
3766228.46 |          660.00       660.00       635.40
3766178.46 |          650.80       649.20       660.00
3766128.46 |          637.60       632.70       632.70
3766078.46 |          660.00       660.00       632.70
3766028.46 |          671.50       660.00       660.00
3765978.46 |          669.60       671.50       667.30
3765928.46 |          660.00       660.00       671.50
3765878.46 |          637.60       637.60       660.00
3765828.46 |          637.60       650.80       637.60
3765778.46 |          671.50       671.50       637.60
3765728.46 |          671.50       671.50       667.30
3765678.46 |          671.50       671.50       671.50
3765628.46 |          671.50       671.50       671.50
```

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

    (486910.9, 3766071.2,   552.6,   654.1,   0.0);   (487071.7, 3766032.3,   553.8,   671.5,   0.0);
    (487146.1, 3766030.0,   559.4,   671.5,   0.0);   (487280.7, 3766020.6,   561.9,   671.5,   0.0);
    (487485.2, 3766054.5,   580.3,   669.6,   0.0);   (487507.5, 3765926.8,   608.6,   650.8,   0.0);
    (487080.8, 3766103.6,   563.8,   652.4,   0.0);   (486821.5, 3766197.7,   542.8,   652.4,   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   - - RECEPTOR LOCATION - -   DISTANCE
                      ID   XR (METERS)   YR (METERS)   (METERS)
                   -

                   L0000163   487177.2   3765878.5   0.17
                   L0000193   487277.2   3765828.5   -0.82
                   L0000194   487277.2   3765828.5   -2.57
                   L0000195   487277.2   3765828.5   0.93
                   L0000224   487377.2   3765778.5   0.96
                   L0000628   486677.2   3766028.5   0.95
                   L0000629   486677.2   3766028.5   -0.76
                   L0000672   486827.2   3765978.5   0.35
                   L0000715   486977.2   3765928.5   -0.43
                   L0000716   486977.2   3765928.5   -0.21
```

```
                  L0000788                    487227.2      3765828.5              0.43
                  L0000789                    487227.2      3765828.5             -2.73
                  L0000790                    487227.2      3765828.5             -0.22
                  L0000819                    487327.2      3765778.5              0.42
                  L0000820                    487327.2      3765778.5             -0.02
```

```
 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                     ***       08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                     ***       18:13:06
                                                                                                           PAGE  35
 *** 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 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  ***   *** Terracina at Redlands                                     ***       08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                     ***       18:13:06
                                                                                                           PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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

   Surface file:    E:\New MET data\RDLD_V9_ADJU\RDLD_v9.SFC                  Met Version: 16216
   Profile file:    E:\New MET data\RDLD_V9_ADJU\RDLD_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3171               Upper air station no.:     3190
                Name: UNKNOWN                                Name: UNKNOWN
                Year:  2012                                  Year:  2012

 First 24 hours of scalar data
 YR MO DY JDY HR    H0     U*     W*   DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS    WD      HT  REF TA     HT
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01  -10.6  0.149 -9.000 -9.000 -999.  138.    26.7  0.32   3.22   1.00    1.30  110.     9.1  285.4      5.5
```

```
12 01 01   1 02    -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22  1.00    0.90  130.    9.1  284.5    5.5
12 01 01   1 03    -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22  1.00    0.90  100.    9.1  285.0    5.5
12 01 01   1 04    -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22  1.00    0.90  107.    9.1  284.6    5.5
12 01 01   1 05   -10.7  0.149 -9.000 -9.000 -999.  138.     26.7  0.32   3.22  1.00    1.30   98.    9.1  284.9    5.5
12 01 01   1 06    -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22  1.00    0.90   86.    9.1  284.5    5.5
12 01 01   1 07    -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22  1.00    0.90   91.    9.1  284.0    5.5
12 01 01   1 08    -4.0  0.102 -9.000 -9.000 -999.   78.     22.9  0.32   3.22  0.54    0.90  107.    9.1  285.0    5.5
12 01 01   1 09    44.6  0.237  0.382  0.006   43.  276.    -25.6  0.15   3.22  0.33    2.10   81.   10.1  289.1    5.5
12 01 01   1 10   134.3  0.111  0.882  0.008  176.   99.     -1.0  0.32   3.22  0.26    0.40   72.    9.1  295.1    5.5
12 01 01   1 11   199.8  0.409  1.429  0.005  503.  627.    -29.4  0.15   3.22  0.23    3.68   78.   10.1  297.9    5.5
12 01 01   1 12   232.3  0.300  1.889  0.005  999.  402.    -10.0  0.32   3.22  0.22    1.80  333.    9.1  299.4    5.5
12 01 01   1 13   230.0  0.300  2.134  0.005 1453.  394.    -10.1  0.32   3.22  0.22    1.80   72.    9.1  300.4    5.5
12 01 01   1 14   194.0  0.294  2.109  0.005 1663.  382.    -11.2  0.32   3.22  0.24    1.80  277.    9.1  301.0    5.5
12 01 01   1 15   126.3  0.378  1.872  0.005 1784.  557.    -36.5  0.32   3.22  0.27    2.70  243.    9.1  301.0    5.5
12 01 01   1 16    39.5  0.199  1.278  0.005 1817.  240.    -17.2  0.32   3.22  0.36    1.30  274.    9.1  300.1    5.5
12 01 01   1 17    -4.7  0.101 -9.000 -9.000 -999.   85.     19.0  0.32   3.22  0.65    0.90  252.    9.1  298.2    5.5
12 01 01   1 18    -4.9  0.102 -9.000 -9.000 -999.   78.     18.2  0.32   3.22  1.00    0.90  116.    9.1  296.4    5.5
12 01 01   1 19   -18.8  0.204 -9.000 -9.000 -999.  220.     45.6  0.15   3.22  1.00    2.27   79.   10.1  292.2    5.5
12 01 01   1 20    -5.0  0.102 -9.000 -9.000 -999.   83.     18.1  0.32   3.22  1.00    0.90   95.    9.1  290.2    5.5
12 01 01   1 21    -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22  1.00    0.90   99.    9.1  287.8    5.5
12 01 01   1 22    -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22  1.00    0.90  110.    9.1  287.6    5.5
12 01 01   1 23   -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22  1.00    1.30   89.    9.1  287.2    5.5
12 01 01   1 24    -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22  1.00    0.90  105.    9.1  285.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR   WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    5.5 0 -999.  -99.00   285.5  99.0  -99.00  -99.00
12 01 01 01    9.1 1  110.    1.30  -999.0  99.0  -99.00  -99.00


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

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***       08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                        ***       18:13:06
                                                                                                             PAGE  37
*** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN   ADJ_U*

                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL    ***
                           INCLUDING SOURCE(S):    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   , . . .      ,

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

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

    Y-COORD  |                                               X-COORD (METERS)
    (METERS) |    486627.18     486677.18     486727.18     486777.18     486827.18     486877.18     486927.18     486977.18     487027.18
    - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
3766628.46 |    0.00506      0.00519      0.00537      0.00539      0.00532      0.00516      0.00495      0.00498      0.00514
3766578.46 |    0.00537      0.00533      0.00545      0.00582      0.00587      0.00556      0.00541      0.00526      0.00504
3766528.46 |    0.00578      0.00579      0.00585      0.00601      0.00628      0.00627      0.00607      0.00588      0.00554
3766478.46 |    0.00657      0.00653      0.00670      0.00668      0.00656      0.00650      0.00657      0.00640      0.00630
3766428.46 |    0.00749      0.00778      0.00797      0.00823      0.00809      0.00751      0.00707      0.00720      0.00791
3766378.46 |    0.00867      0.00902      0.00969      0.01040      0.01016      0.00990      0.00963      0.00976      0.00970
3766328.46 |    0.01076      0.01097      0.01186      0.01281      0.01292      0.01278      0.01253      0.01193      0.01112
3766278.46 |    0.01348      0.01429      0.01524      0.01597      0.01619      0.01565      0.01415      0.01234      0.01118
3766228.46 |    0.01775      0.01940      0.02032      0.02084      0.02023      0.01879      0.01676      0.01447      0.01197
3766178.46 |    0.02545      0.02845      0.02917      0.02848      0.02635      0.02189      0.01703      0.01570      0.01625
3766128.46 |    0.04397      0.04912      0.04711      0.04140      0.02929      0.02180      0.02013      0.02351      0.02161
3766078.46 |    0.39769      0.15032      0.10319      0.07318      0.04825      0.04271      0.03972      0.04062      0.03725
3766028.46 |    0.20796      0.42539      0.36255      0.44114      0.16878      0.11393      0.08683      0.07189      0.05983
3765978.46 |    0.05594      0.08564      0.13082      0.25350      0.49821      0.37060      0.43100      0.17219      0.11657
3765928.46 |    0.02638      0.04435      0.05827      0.07487      0.09941      0.14267      0.26178      0.43773      0.46565
3765878.46 |    0.01413      0.02220      0.03589      0.04460      0.05342      0.06435      0.07962      0.10243      0.14495
3765828.46 |    0.01076      0.01517      0.02391      0.02569      0.02612      0.03758      0.04073      0.04262      0.03863
3765778.46 |    0.00897      0.01022      0.01323      0.01446      0.01449      0.01961      0.02487      0.02194      0.02348
3765728.46 |    0.00796      0.00855      0.00932      0.00987      0.01035      0.01207      0.01446      0.01500      0.01589
3765678.46 |    0.00638      0.00728      0.00787      0.00814      0.00840      0.00895      0.00968      0.01046      0.01112
3765628.46 |    0.00502      0.00551      0.00671      0.00681      0.00687      0.00725      0.00773      0.00821      0.00844
```

```
                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                             INCLUDING SOURCE(S):     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   , . . .       ,

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

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

   Y-COORD |                                         X-COORD (METERS)
   (METERS)|    487077.18    487127.18    487177.18    487227.18    487277.18    487327.18    487377.18    487427.18    487477.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3766628.46 |    0.00521      0.00507      0.00477      0.00446      0.00426      0.00412      0.00395      0.00372      0.00350
3766578.46 |    0.00506      0.00532      0.00530      0.00496      0.00457      0.00430      0.00413      0.00391      0.00366
3766528.46 |    0.00528      0.00521      0.00532      0.00542      0.00519      0.00468      0.00441      0.00414      0.00383
3766478.46 |    0.00634      0.00587      0.00558      0.00550      0.00565      0.00528      0.00483      0.00446      0.00399
3766428.46 |    0.00796      0.00746      0.00686      0.00608      0.00579      0.00541      0.00503      0.00461      0.00370
3766378.46 |    0.00868      0.00825      0.00729      0.00627      0.00568      0.00495      0.00431      0.00403      0.00389
3766328.46 |    0.00972      0.00840      0.00776      0.00633      0.00522      0.00465      0.00470      0.00422      0.00379
3766278.46 |    0.01063      0.00888      0.00699      0.00622      0.00539      0.00593      0.00641      0.00548      0.00512
3766228.46 |    0.01071      0.00964      0.00761      0.00834      0.00776      0.00807      0.00847      0.00748      0.00701
3766178.46 |    0.01325      0.01121      0.01033      0.01119      0.01085      0.01117      0.01094      0.00964      0.00802
```

```
3766128.46 |     0.01737    0.01682    0.01435    0.01551    0.01570    0.01504    0.01360    0.01117    0.00853
3766078.46 |     0.03202    0.02706    0.02118    0.02285    0.02138    0.01921    0.01694    0.01471    0.01204
3766028.46 |     0.05049    0.04302    0.03621    0.03400    0.03003    0.02438    0.01757    0.01600    0.01535
3765978.46 |     0.08874    0.06954    0.05647    0.04967    0.03985    0.02988    0.02245    0.01574    0.01321
3765928.46 |     0.29654    0.14924    0.10190    0.07852    0.05042    0.03089    0.02437    0.01906    0.01430
3765878.46 |     0.27457    0.61997    0.51394    0.17569    0.10558    0.05578    0.04314    0.02780    0.02043
3765828.46 |     0.05028    0.09653    0.19038    0.38243    0.38057    0.16748    0.08488    0.04802    0.02964
3765778.46 |     0.02709    0.03409    0.06509    0.10499    0.18318    0.44019    0.45690    0.11021    0.04799
3765728.46 |     0.01803    0.02313    0.03864    0.05668    0.07628    0.11049    0.22571    0.38379    0.35406
3765678.46 |     0.01219    0.01488    0.02269    0.03514    0.04490    0.05908    0.07741    0.11519    0.25653
3765628.46 |     0.00907    0.01101    0.01779    0.02336    0.02626    0.03298    0.04662    0.05704    0.07407
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                               INCLUDING SOURCE(S):      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   , . . .      ,
```

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

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

```
   Y-COORD  |                                                      X-COORD (METERS)
   (METERS) |    487527.18   487577.18   487627.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |      0.00332    0.00316    0.00296
   3766578.46 |      0.00344    0.00324    0.00301
   3766528.46 |      0.00355    0.00330    0.00301
   3766478.46 |      0.00361    0.00330    0.00283
   3766428.46 |      0.00316    0.00336    0.00272
   3766378.46 |      0.00321    0.00319    0.00313
   3766328.46 |      0.00371    0.00328    0.00321
   3766278.46 |      0.00464    0.00435    0.00337
   3766228.46 |      0.00625    0.00549    0.00449
   3766178.46 |      0.00644    0.00551    0.00535
   3766128.46 |      0.00651    0.00561    0.00487
   3766078.46 |      0.00967    0.00774    0.00570
   3766028.46 |      0.01319    0.00938    0.00740
   3765978.46 |      0.01434    0.01297    0.01028
   3765928.46 |      0.01375    0.01253    0.01248
   3765878.46 |      0.01562    0.01307    0.01176
   3765828.46 |      0.02086    0.01750    0.01380
   3765778.46 |      0.03601    0.02599    0.01748
   3765728.46 |      0.09894    0.03969    0.02642
   3765678.46 |      0.36117    0.20918    0.05887
```

```
 3765628.46 |       0.11108     0.29014     0.25755
```

```
*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                    ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                    ***      18:13:06
                                                                                                       PAGE  40
  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                              INCLUDING SOURCE(S):    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  , . . .     ,

                                     *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        486910.88   3766071.19      0.04712                487071.68   3766032.30      0.04940
        487146.10   3766029.99      0.03911                487280.73   3766020.65      0.03108
        487485.24   3766054.47      0.01342                487507.54   3765926.79      0.01377
        487080.82   3766103.59      0.02347                486821.49   3766197.66      0.02407
```

```
*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                    ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                    ***      18:13:06
                                                                                                       PAGE  41
  *** 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      0.61997 AT (  487127.18,  3765878.46,   550.20,   671.50,    0.00)  GC  UCART1
          2ND HIGHEST VALUE IS      0.51394 AT (  487177.18,  3765878.46,   555.20,   671.50,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS      0.49821 AT (  486827.18,  3765978.46,   537.60,   671.50,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS      0.46565 AT (  487027.18,  3765928.46,   545.10,   671.50,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS      0.45690 AT (  487377.18,  3765778.46,   566.60,   671.50,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS      0.44114 AT (  486777.18,  3766028.46,   534.90,   671.50,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS      0.44019 AT (  487327.18,  3765778.46,   560.10,   671.50,    0.00)  GC  UCART1
          8TH HIGHEST VALUE IS      0.43773 AT (  486977.18,  3765928.46,   543.80,   671.50,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS      0.43100 AT (  486927.18,  3765978.46,   541.10,   671.50,    0.00)  GC  UCART1
         10TH HIGHEST VALUE IS      0.42539 AT (  486677.18,  3766028.46,   531.30,   668.60,    0.00)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
```

```
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR


*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                    ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations OY                    ***        18:13:06
                                                                                                          PAGE  42
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

A Total of           0 Fatal Error Message(s)
A Total of           2 Warning Message(s)
A Total of         388 Informational Message(s)


A Total of       43848 Hours Were Processed


A Total of         191 Calm Hours Identified


A Total of         197 Missing Hours Identified (   0.45 Percent)



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



    ********   WARNING MESSAGES   ********
ME W186    1339       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
ME W187    1339       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/11/2021
** File: C:\Lakes\AERMOD View\Terracina at Redlands 2026-2027\Terracina at Redlands 2026-2027.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE Terracina at Redlands
   TITLETWO Freeway-related DPM Concentrations 2026-2027
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "Terracina at Redlands 2026-2027.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC EB 10 freeway
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00121
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 12
** 486616.041, 3766076.797, 526.82, 0.00, 1.70
** 486786.952, 3766018.704, 535.73, 0.00, 1.70
```

```
**  486896.402, 3765982.502, 539.74, 0.00, 1.70
**  487020.166, 3765938.721, 544.37, 0.00, 1.70
**  487127.090, 3765896.625, 550.05, 0.00, 1.70
**  487255.905, 3765839.374, 556.47, 0.00, 1.70
**  487365.355, 3765779.597, 565.73, 0.00, 1.70
**  487442.813, 3765739.185, 575.21, 0.00, 1.70
**  487518.586, 3765698.772, 574.32, 0.00, 1.70
**  487573.311, 3765669.305, 575.18, 0.00, 1.70
**  487609.514, 3765647.415, 578.30, 0.00, 1.70
**  487635.614, 3765634.786, 578.12, 0.00, 1.70
** -----------------------------------------------------------------
    LOCATION L0000913    VOLUME    486617.773 3766076.209 527.35
    LOCATION L0000914    VOLUME    486621.236 3766075.032 527.48
    LOCATION L0000915    VOLUME    486624.699 3766073.855 527.61
    LOCATION L0000916    VOLUME    486628.162 3766072.678 527.73
    LOCATION L0000917    VOLUME    486631.625 3766071.500 527.88
    LOCATION L0000918    VOLUME    486635.088 3766070.323 528.02
    LOCATION L0000919    VOLUME    486638.551 3766069.146 528.14
    LOCATION L0000920    VOLUME    486642.014 3766067.969 528.26
    LOCATION L0000921    VOLUME    486645.477 3766066.792 528.37
    LOCATION L0000922    VOLUME    486648.940 3766065.615 528.47
    LOCATION L0000923    VOLUME    486652.403 3766064.438 528.55
    LOCATION L0000924    VOLUME    486655.866 3766063.261 528.67
    LOCATION L0000925    VOLUME    486659.329 3766062.084 528.80
    LOCATION L0000926    VOLUME    486662.792 3766060.907 528.97
    LOCATION L0000927    VOLUME    486666.255 3766059.730 529.16
    LOCATION L0000928    VOLUME    486669.718 3766058.553 529.36
    LOCATION L0000929    VOLUME    486673.181 3766057.375 529.54
    LOCATION L0000930    VOLUME    486676.644 3766056.198 529.73
    LOCATION L0000931    VOLUME    486680.107 3766055.021 529.91
    LOCATION L0000932    VOLUME    486683.570 3766053.844 530.11
    LOCATION L0000933    VOLUME    486687.033 3766052.667 530.30
    LOCATION L0000934    VOLUME    486690.496 3766051.490 530.48
    LOCATION L0000935    VOLUME    486693.959 3766050.313 530.66
    LOCATION L0000936    VOLUME    486697.422 3766049.136 530.83
    LOCATION L0000937    VOLUME    486700.885 3766047.959 530.99
    LOCATION L0000938    VOLUME    486704.348 3766046.782 531.15
    LOCATION L0000939    VOLUME    486707.811 3766045.605 531.33
    LOCATION L0000940    VOLUME    486711.274 3766044.428 531.51
    LOCATION L0000941    VOLUME    486714.737 3766043.250 531.68
    LOCATION L0000942    VOLUME    486718.200 3766042.073 531.84
    LOCATION L0000943    VOLUME    486721.663 3766040.896 531.98
    LOCATION L0000944    VOLUME    486725.126 3766039.719 532.11
    LOCATION L0000945    VOLUME    486728.589 3766038.542 532.23
    LOCATION L0000946    VOLUME    486732.052 3766037.365 532.42
    LOCATION L0000947    VOLUME    486735.515 3766036.188 532.65
    LOCATION L0000948    VOLUME    486738.978 3766035.011 532.84
    LOCATION L0000949    VOLUME    486742.441 3766033.834 532.99
    LOCATION L0000950    VOLUME    486745.904 3766032.657 533.10
    LOCATION L0000951    VOLUME    486749.367 3766031.480 533.16
    LOCATION L0000952    VOLUME    486752.830 3766030.302 533.23
```

```
LOCATION L0000953      VOLUME      486756.293 3766029.125 533.44
LOCATION L0000954      VOLUME      486759.756 3766027.948 533.73
LOCATION L0000955      VOLUME      486763.219 3766026.771 534.01
LOCATION L0000956      VOLUME      486766.682 3766025.594 534.27
LOCATION L0000957      VOLUME      486770.145 3766024.417 534.53
LOCATION L0000958      VOLUME      486773.608 3766023.240 534.77
LOCATION L0000959      VOLUME      486777.071 3766022.063 534.99
LOCATION L0000960      VOLUME      486780.534 3766020.886 535.21
LOCATION L0000961      VOLUME      486783.997 3766019.709 535.45
LOCATION L0000962      VOLUME      486787.462 3766018.536 535.70
LOCATION L0000963      VOLUME      486790.934 3766017.387 535.92
LOCATION L0000964      VOLUME      486794.407 3766016.239 536.12
LOCATION L0000965      VOLUME      486797.880 3766015.090 536.31
LOCATION L0000966      VOLUME      486801.352 3766013.941 536.47
LOCATION L0000967      VOLUME      486804.825 3766012.793 536.61
LOCATION L0000968      VOLUME      486808.297 3766011.644 536.74
LOCATION L0000969      VOLUME      486811.770 3766010.495 536.87
LOCATION L0000970      VOLUME      486815.242 3766009.347 536.98
LOCATION L0000971      VOLUME      486818.715 3766008.198 537.06
LOCATION L0000972      VOLUME      486822.188 3766007.050 537.11
LOCATION L0000973      VOLUME      486825.660 3766005.901 537.14
LOCATION L0000974      VOLUME      486829.133 3766004.752 537.14
LOCATION L0000975      VOLUME      486832.605 3766003.604 537.12
LOCATION L0000976      VOLUME      486836.078 3766002.455 537.10
LOCATION L0000977      VOLUME      486839.550 3766001.307 537.08
LOCATION L0000978      VOLUME      486843.023 3766000.158 537.05
LOCATION L0000979      VOLUME      486846.496 3765999.009 537.15
LOCATION L0000980      VOLUME      486849.968 3765997.861 537.35
LOCATION L0000981      VOLUME      486853.441 3765996.712 537.54
LOCATION L0000982      VOLUME      486856.913 3765995.563 537.74
LOCATION L0000983      VOLUME      486860.386 3765994.415 537.95
LOCATION L0000984      VOLUME      486863.858 3765993.266 538.18
LOCATION L0000985      VOLUME      486867.331 3765992.118 538.40
LOCATION L0000986      VOLUME      486870.803 3765990.969 538.61
LOCATION L0000987      VOLUME      486874.276 3765989.820 538.81
LOCATION L0000988      VOLUME      486877.749 3765988.672 539.00
LOCATION L0000989      VOLUME      486881.221 3765987.523 539.18
LOCATION L0000990      VOLUME      486884.694 3765986.374 539.36
LOCATION L0000991      VOLUME      486888.166 3765985.226 539.56
LOCATION L0000992      VOLUME      486891.639 3765984.077 539.74
LOCATION L0000993      VOLUME      486895.111 3765982.929 539.91
LOCATION L0000994      VOLUME      486898.569 3765981.735 540.06
LOCATION L0000995      VOLUME      486902.017 3765980.516 540.20
LOCATION L0000996      VOLUME      486905.465 3765979.296 540.32
LOCATION L0000997      VOLUME      486908.913 3765978.076 540.42
LOCATION L0000998      VOLUME      486912.362 3765976.856 540.51
LOCATION L0000999      VOLUME      486915.810 3765975.636 540.59
LOCATION L0001000      VOLUME      486919.258 3765974.417 540.66
LOCATION L0001001      VOLUME      486922.706 3765973.197 540.71
LOCATION L0001002      VOLUME      486926.154 3765971.977 540.76
LOCATION L0001003      VOLUME      486929.603 3765970.757 540.79
```

```
LOCATION L0001004    VOLUME    486933.051 3765969.538 540.82
LOCATION L0001005    VOLUME    486936.499 3765968.318 540.90
LOCATION L0001006    VOLUME    486939.947 3765967.098 541.11
LOCATION L0001007    VOLUME    486943.396 3765965.878 541.31
LOCATION L0001008    VOLUME    486946.844 3765964.658 541.51
LOCATION L0001009    VOLUME    486950.292 3765963.439 541.70
LOCATION L0001010    VOLUME    486953.740 3765962.219 541.89
LOCATION L0001011    VOLUME    486957.188 3765960.999 542.08
LOCATION L0001012    VOLUME    486960.637 3765959.779 542.26
LOCATION L0001013    VOLUME    486964.085 3765958.560 542.47
LOCATION L0001014    VOLUME    486967.533 3765957.340 542.67
LOCATION L0001015    VOLUME    486970.981 3765956.120 542.86
LOCATION L0001016    VOLUME    486974.429 3765954.900 543.03
LOCATION L0001017    VOLUME    486977.878 3765953.680 543.20
LOCATION L0001018    VOLUME    486981.326 3765952.461 543.36
LOCATION L0001019    VOLUME    486984.774 3765951.241 543.51
LOCATION L0001020    VOLUME    486988.222 3765950.021 543.66
LOCATION L0001021    VOLUME    486991.671 3765948.801 543.80
LOCATION L0001022    VOLUME    486995.119 3765947.582 543.93
LOCATION L0001023    VOLUME    486998.567 3765946.362 544.05
LOCATION L0001024    VOLUME    487002.015 3765945.142 544.15
LOCATION L0001025    VOLUME    487005.463 3765943.922 544.23
LOCATION L0001026    VOLUME    487008.912 3765942.702 544.30
LOCATION L0001027    VOLUME    487012.360 3765941.483 544.35
LOCATION L0001028    VOLUME    487015.808 3765940.263 544.42
LOCATION L0001029    VOLUME    487019.256 3765939.043 544.47
LOCATION L0001030    VOLUME    487022.671 3765937.735 544.52
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LOCATION L0001032    VOLUME    487029.478 3765935.055 544.87
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LOCATION L0001035    VOLUME    487039.688 3765931.035 545.41
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LOCATION L0001037    VOLUME    487046.495 3765928.356 545.82
LOCATION L0001038    VOLUME    487049.898 3765927.016 546.02
LOCATION L0001039    VOLUME    487053.301 3765925.676 546.21
LOCATION L0001040    VOLUME    487056.705 3765924.336 546.39
LOCATION L0001041    VOLUME    487060.108 3765922.996 546.56
LOCATION L0001042    VOLUME    487063.511 3765921.656 546.72
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LOCATION L0001044    VOLUME    487070.318 3765918.976 547.04
LOCATION L0001045    VOLUME    487073.721 3765917.636 547.18
LOCATION L0001046    VOLUME    487077.125 3765916.297 547.30
LOCATION L0001047    VOLUME    487080.528 3765914.957 547.40
LOCATION L0001048    VOLUME    487083.931 3765913.617 547.49
LOCATION L0001049    VOLUME    487087.335 3765912.277 547.57
LOCATION L0001050    VOLUME    487090.738 3765910.937 547.63
LOCATION L0001051    VOLUME    487094.142 3765909.597 547.69
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LOCATION L0001053    VOLUME    487100.948 3765906.917 547.76
LOCATION L0001054    VOLUME    487104.352 3765905.577 547.90
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LOCATION L0001056     VOLUME     487111.158 3765902.898 548.19
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LOCATION L0001058     VOLUME     487117.965 3765900.218 548.57
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LOCATION L0001061     VOLUME     487128.155 3765896.152 549.25
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LOCATION L0001063     VOLUME     487134.840 3765893.181 549.68
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LOCATION L0001065     VOLUME     487141.525 3765890.210 550.20
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LOCATION L0001067     VOLUME     487148.210 3765887.239 551.30
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LOCATION L0001083     VOLUME     487201.687 3765863.471 555.07
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LOCATION L0001100     VOLUME     487258.404 3765838.009 556.30
LOCATION L0001101     VOLUME     487261.614 3765836.256 556.55
LOCATION L0001102     VOLUME     487264.824 3765834.503 556.78
LOCATION L0001103     VOLUME     487268.035 3765832.750 556.99
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LOCATION L0001105     VOLUME     487274.455 3765829.243 557.66
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LOCATION L0001110     VOLUME     487290.505 3765820.477 558.72
LOCATION L0001111     VOLUME     487293.715 3765818.724 558.82
LOCATION L0001112     VOLUME     487296.925 3765816.971 558.91
LOCATION L0001113     VOLUME     487300.135 3765815.218 558.97
LOCATION L0001114     VOLUME     487303.345 3765813.465 559.09
LOCATION L0001115     VOLUME     487306.555 3765811.711 559.30
LOCATION L0001116     VOLUME     487309.765 3765809.958 559.51
LOCATION L0001117     VOLUME     487312.975 3765808.205 559.70
LOCATION L0001118     VOLUME     487316.185 3765806.452 559.89
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LOCATION L0001154     VOLUME     487432.424 3765744.605 571.36
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LOCATION L0001156     VOLUME     487438.909 3765741.221 572.23
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LOCATION L0001163    VOLUME    487461.519 3765729.208 573.08
LOCATION L0001164    VOLUME    487464.746 3765727.487 573.01
LOCATION L0001165    VOLUME    487467.974 3765725.766 572.88
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LOCATION L0001168    VOLUME    487477.655 3765720.602 572.52
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LOCATION L0001170    VOLUME    487484.110 3765717.160 573.07
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LOCATION L0001188    VOLUME    487542.151 3765686.084 578.12
LOCATION L0001189    VOLUME    487545.371 3765684.350 578.49
LOCATION L0001190    VOLUME    487548.592 3765682.615 578.78
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LOCATION L0001192    VOLUME    487555.033 3765679.147 579.53
LOCATION L0001193    VOLUME    487558.253 3765677.413 579.85
LOCATION L0001194    VOLUME    487561.473 3765675.679 580.07
LOCATION L0001195    VOLUME    487564.694 3765673.945 580.19
LOCATION L0001196    VOLUME    487567.914 3765672.211 580.21
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LOCATION L0001200    VOLUME    487580.586 3765664.907 579.46
LOCATION L0001201    VOLUME    487583.716 3765663.014 579.22
LOCATION L0001202    VOLUME    487586.845 3765661.122 578.94
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LOCATION L0001206    VOLUME    487599.365 3765653.551 579.90
LOCATION L0001207    VOLUME    487602.495 3765651.659 580.06
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    LOCATION L0001211      VOLUME     487615.300 3765644.615 580.18
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    LOCATION L0001213      VOLUME     487621.885 3765641.429 580.14
    LOCATION L0001214      VOLUME     487625.178 3765639.836 580.07
    LOCATION L0001215      VOLUME     487628.470 3765638.243 579.90
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** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC WB 10 freeway
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00121
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
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    LOCATION L0001219      VOLUME     486610.310 3766047.306 528.76
    LOCATION L0001220      VOLUME     486613.786 3766046.168 528.87
    LOCATION L0001221      VOLUME     486617.262 3766045.030 528.99
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    LOCATION L0001224      VOLUME     486627.690 3766041.616 529.37
    LOCATION L0001225      VOLUME     486631.166 3766040.477 529.52
    LOCATION L0001226      VOLUME     486634.642 3766039.339 529.67
    LOCATION L0001227      VOLUME     486638.118 3766038.201 529.83
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    LOCATION L0001230      VOLUME     486648.546 3766034.786 530.31
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LOCATION L0001238     VOLUME    486676.354 3766025.681 531.29
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LOCATION L0001257     VOLUME    486742.396 3766004.050 534.15
LOCATION L0001258     VOLUME    486745.847 3766002.838 534.32
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LOCATION L0001279     VOLUME    486818.318 3765977.388 537.31
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LOCATION L0001281     VOLUME    486825.220 3765974.964 537.67
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LOCATION L0001287     VOLUME     486845.988 3765967.877 538.66
LOCATION L0001288     VOLUME     486849.468 3765966.752 538.77
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LOCATION L0001294     VOLUME     486870.350 3765960.003 539.44
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LOCATION L0001298     VOLUME     486884.272 3765955.504 539.97
LOCATION L0001299     VOLUME     486887.752 3765954.379 540.11
LOCATION L0001300     VOLUME     486891.232 3765953.254 540.26
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LOCATION L0001307     VOLUME     486915.595 3765945.380 541.42
LOCATION L0001308     VOLUME     486919.075 3765944.255 541.59
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LOCATION L0001314     VOLUME     486939.963 3765937.526 542.62
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LOCATION L0001324     VOLUME     486974.778 3765926.311 543.76
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LOCATION L0001326     VOLUME     486981.741 3765924.069 544.02
LOCATION L0001327     VOLUME     486985.222 3765922.947 544.16
LOCATION L0001328     VOLUME     486988.703 3765921.826 544.31
LOCATION L0001329     VOLUME     486992.185 3765920.704 544.45
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** Source Parameters **
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** ----------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "Terracina at Redlands 2026-2027.rou"
RE FINISHED
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**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
    SURFFILE "E:\New MET data\RDLD_V9_ADJU\RDLD_v9.SFC"
    PROFFILE "E:\New MET data\RDLD_V9_ADJU\RDLD_v9.PFL"
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    SITEDATA 99999 2012
    PROFBASE 481.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
    PLOTFILE PERIOD ALL "TERRACINA AT REDLANDS 2026-2027.AD\PE00GALL.PLT" 31
    SUMMFILE "Terracina at Redlands 2026-2027.sum"
OU FINISHED


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

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

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of          0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W186    1339       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    1339       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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


 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***         08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                       ***         20:03:29
```

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*** 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   609 Source(s),
  for Total of     1 Urban Area(s):
  Urban Population =   2035210.0 ;  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:    609 Source(s);        1 Source Group(s); and     449 Receptor(s)


                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                and:    609 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) =   481.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.8 MB of RAM.

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

**Detailed Error/Message File: Terracina at Redlands 2026-2027.err
**File for Summary of Results: Terracina at Redlands 2026-2027.sum

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2026-2027   ***   20:03:29
                                                                                                                   PAGE   2
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

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

  L0000913   0 0.39670E-05 486617.8 3766076.2   527.3   0.00   1.70   0.85   YES
  L0000914   0 0.39670E-05 486621.2 3766075.0   527.5   0.00   1.70   0.85   YES
  L0000915   0 0.39670E-05 486624.7 3766073.9   527.6   0.00   1.70   0.85   YES
  L0000916   0 0.39670E-05 486628.2 3766072.7   527.7   0.00   1.70   0.85   YES
  L0000917   0 0.39670E-05 486631.6 3766071.5   527.9   0.00   1.70   0.85   YES
  L0000918   0 0.39670E-05 486635.1 3766070.3   528.0   0.00   1.70   0.85   YES
  L0000919   0 0.39670E-05 486638.6 3766069.1   528.1   0.00   1.70   0.85   YES
  L0000920   0 0.39670E-05 486642.0 3766068.0   528.3   0.00   1.70   0.85   YES
  L0000921   0 0.39670E-05 486645.5 3766066.8   528.4   0.00   1.70   0.85   YES
  L0000922   0 0.39670E-05 486648.9 3766065.6   528.5   0.00   1.70   0.85   YES
  L0000923   0 0.39670E-05 486652.4 3766064.4   528.5   0.00   1.70   0.85   YES
  L0000924   0 0.39670E-05 486655.9 3766063.3   528.7   0.00   1.70   0.85   YES
  L0000925   0 0.39670E-05 486659.3 3766062.1   528.8   0.00   1.70   0.85   YES
  L0000926   0 0.39670E-05 486662.8 3766060.9   529.0   0.00   1.70   0.85   YES
  L0000927   0 0.39670E-05 486666.3 3766059.7   529.2   0.00   1.70   0.85   YES
  L0000928   0 0.39670E-05 486669.7 3766058.6   529.4   0.00   1.70   0.85   YES

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L0000929        0    0.39670E-05   486673.2 3766057.4   529.5     0.00     1.70     0.85      YES
L0000930        0    0.39670E-05   486676.6 3766056.2   529.7     0.00     1.70     0.85      YES
L0000931        0    0.39670E-05   486680.1 3766055.0   529.9     0.00     1.70     0.85      YES
L0000932        0    0.39670E-05   486683.6 3766053.8   530.1     0.00     1.70     0.85      YES
L0000933        0    0.39670E-05   486687.0 3766052.7   530.3     0.00     1.70     0.85      YES
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L0000935        0    0.39670E-05   486694.0 3766050.3   530.7     0.00     1.70     0.85      YES
L0000936        0    0.39670E-05   486697.4 3766049.1   530.8     0.00     1.70     0.85      YES
L0000937        0    0.39670E-05   486700.9 3766048.0   531.0     0.00     1.70     0.85      YES
L0000938        0    0.39670E-05   486704.3 3766046.8   531.1     0.00     1.70     0.85      YES
L0000939        0    0.39670E-05   486707.8 3766045.6   531.3     0.00     1.70     0.85      YES
L0000940        0    0.39670E-05   486711.3 3766044.4   531.5     0.00     1.70     0.85      YES
L0000941        0    0.39670E-05   486714.7 3766043.2   531.7     0.00     1.70     0.85      YES
L0000942        0    0.39670E-05   486718.2 3766042.1   531.8     0.00     1.70     0.85      YES
L0000943        0    0.39670E-05   486721.7 3766040.9   532.0     0.00     1.70     0.85      YES
L0000944        0    0.39670E-05   486725.1 3766039.7   532.1     0.00     1.70     0.85      YES
L0000945        0    0.39670E-05   486728.6 3766038.5   532.2     0.00     1.70     0.85      YES
L0000946        0    0.39670E-05   486732.1 3766037.4   532.4     0.00     1.70     0.85      YES
L0000947        0    0.39670E-05   486735.5 3766036.2   532.6     0.00     1.70     0.85      YES
L0000948        0    0.39670E-05   486739.0 3766035.0   532.8     0.00     1.70     0.85      YES
L0000949        0    0.39670E-05   486742.4 3766033.8   533.0     0.00     1.70     0.85      YES
L0000950        0    0.39670E-05   486745.9 3766032.7   533.1     0.00     1.70     0.85      YES
L0000951        0    0.39670E-05   486749.4 3766031.5   533.2     0.00     1.70     0.85      YES
L0000952        0    0.39670E-05   486752.8 3766030.3   533.2     0.00     1.70     0.85      YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000953	0	0.39670E-05	486756.3	3766029.1	533.4	0.00	1.70	0.85	YES	
L0000954	0	0.39670E-05	486759.8	3766027.9	533.7	0.00	1.70	0.85	YES	
L0000955	0	0.39670E-05	486763.2	3766026.8	534.0	0.00	1.70	0.85	YES	
L0000956	0	0.39670E-05	486766.7	3766025.6	534.3	0.00	1.70	0.85	YES	
L0000957	0	0.39670E-05	486770.1	3766024.4	534.5	0.00	1.70	0.85	YES	
L0000958	0	0.39670E-05	486773.6	3766023.2	534.8	0.00	1.70	0.85	YES	
L0000959	0	0.39670E-05	486777.1	3766022.1	535.0	0.00	1.70	0.85	YES	
L0000960	0	0.39670E-05	486780.5	3766020.9	535.2	0.00	1.70	0.85	YES	
L0000961	0	0.39670E-05	486784.0	3766019.7	535.4	0.00	1.70	0.85	YES	
L0000962	0	0.39670E-05	486787.5	3766018.5	535.7	0.00	1.70	0.85	YES	
L0000963	0	0.39670E-05	486790.9	3766017.4	535.9	0.00	1.70	0.85	YES	
L0000964	0	0.39670E-05	486794.4	3766016.2	536.1	0.00	1.70	0.85	YES	
L0000965	0	0.39670E-05	486797.9	3766015.1	536.3	0.00	1.70	0.85	YES	

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L0000966       0   0.39670E-05  486801.4 3766013.9   536.5   0.00   1.70   0.85   YES
L0000967       0   0.39670E-05  486804.8 3766012.8   536.6   0.00   1.70   0.85   YES
L0000968       0   0.39670E-05  486808.3 3766011.6   536.7   0.00   1.70   0.85   YES
L0000969       0   0.39670E-05  486811.8 3766010.5   536.9   0.00   1.70   0.85   YES
L0000970       0   0.39670E-05  486815.2 3766009.3   537.0   0.00   1.70   0.85   YES
L0000971       0   0.39670E-05  486818.7 3766008.2   537.1   0.00   1.70   0.85   YES
L0000972       0   0.39670E-05  486822.2 3766007.0   537.1   0.00   1.70   0.85   YES
L0000973       0   0.39670E-05  486825.7 3766005.9   537.1   0.00   1.70   0.85   YES
L0000974       0   0.39670E-05  486829.1 3766004.8   537.1   0.00   1.70   0.85   YES
L0000975       0   0.39670E-05  486832.6 3766003.6   537.1   0.00   1.70   0.85   YES
L0000976       0   0.39670E-05  486836.1 3766002.5   537.1   0.00   1.70   0.85   YES
L0000977       0   0.39670E-05  486839.5 3766001.3   537.1   0.00   1.70   0.85   YES
L0000978       0   0.39670E-05  486843.0 3766000.2   537.0   0.00   1.70   0.85   YES
L0000979       0   0.39670E-05  486846.5 3765999.0   537.1   0.00   1.70   0.85   YES
L0000980       0   0.39670E-05  486850.0 3765997.9   537.3   0.00   1.70   0.85   YES
L0000981       0   0.39670E-05  486853.4 3765996.7   537.5   0.00   1.70   0.85   YES
L0000982       0   0.39670E-05  486856.9 3765995.6   537.7   0.00   1.70   0.85   YES
L0000983       0   0.39670E-05  486860.4 3765994.4   537.9   0.00   1.70   0.85   YES
L0000984       0   0.39670E-05  486863.9 3765993.3   538.2   0.00   1.70   0.85   YES
L0000985       0   0.39670E-05  486867.3 3765992.1   538.4   0.00   1.70   0.85   YES
L0000986       0   0.39670E-05  486870.8 3765991.0   538.6   0.00   1.70   0.85   YES
L0000987       0   0.39670E-05  486874.3 3765989.8   538.8   0.00   1.70   0.85   YES
L0000988       0   0.39670E-05  486877.7 3765988.7   539.0   0.00   1.70   0.85   YES
L0000989       0   0.39670E-05  486881.2 3765987.5   539.2   0.00   1.70   0.85   YES
L0000990       0   0.39670E-05  486884.7 3765986.4   539.4   0.00   1.70   0.85   YES
L0000991       0   0.39670E-05  486888.2 3765985.2   539.6   0.00   1.70   0.85   YES
L0000992       0   0.39670E-05  486891.6 3765984.1   539.7   0.00   1.70   0.85   YES
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*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                          ***        08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations 2026-2027                   ***        20:03:29
                                                                                                                PAGE   4
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                        *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0000993	0	0.39670E-05	486895.1	3765982.9	539.9	0.00	1.70	0.85	YES	
L0000994	0	0.39670E-05	486898.6	3765981.7	540.1	0.00	1.70	0.85	YES	
L0000995	0	0.39670E-05	486902.0	3765980.5	540.2	0.00	1.70	0.85	YES	
L0000996	0	0.39670E-05	486905.5	3765979.3	540.3	0.00	1.70	0.85	YES	
L0000997	0	0.39670E-05	486908.9	3765978.1	540.4	0.00	1.70	0.85	YES	
L0000998	0	0.39670E-05	486912.4	3765976.9	540.5	0.00	1.70	0.85	YES	
L0000999	0	0.39670E-05	486915.8	3765975.6	540.6	0.00	1.70	0.85	YES	
L0001000	0	0.39670E-05	486919.3	3765974.4	540.7	0.00	1.70	0.85	YES	
L0001001	0	0.39670E-05	486922.7	3765973.2	540.7	0.00	1.70	0.85	YES	
L0001002	0	0.39670E-05	486926.2	3765972.0	540.8	0.00	1.70	0.85	YES	

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L0001003        0   0.39670E-05  486929.6 3765970.8   540.8    0.00    1.70    0.85    YES
L0001004        0   0.39670E-05  486933.1 3765969.5   540.8    0.00    1.70    0.85    YES
L0001005        0   0.39670E-05  486936.5 3765968.3   540.9    0.00    1.70    0.85    YES
L0001006        0   0.39670E-05  486939.9 3765967.1   541.1    0.00    1.70    0.85    YES
L0001007        0   0.39670E-05  486943.4 3765965.9   541.3    0.00    1.70    0.85    YES
L0001008        0   0.39670E-05  486946.8 3765964.7   541.5    0.00    1.70    0.85    YES
L0001009        0   0.39670E-05  486950.3 3765963.4   541.7    0.00    1.70    0.85    YES
L0001010        0   0.39670E-05  486953.7 3765962.2   541.9    0.00    1.70    0.85    YES
L0001011        0   0.39670E-05  486957.2 3765961.0   542.1    0.00    1.70    0.85    YES
L0001012        0   0.39670E-05  486960.6 3765959.8   542.3    0.00    1.70    0.85    YES
L0001013        0   0.39670E-05  486964.1 3765958.6   542.5    0.00    1.70    0.85    YES
L0001014        0   0.39670E-05  486967.5 3765957.3   542.7    0.00    1.70    0.85    YES
L0001015        0   0.39670E-05  486971.0 3765956.1   542.9    0.00    1.70    0.85    YES
L0001016        0   0.39670E-05  486974.4 3765954.9   543.0    0.00    1.70    0.85    YES
L0001017        0   0.39670E-05  486977.9 3765953.7   543.2    0.00    1.70    0.85    YES
L0001018        0   0.39670E-05  486981.3 3765952.5   543.4    0.00    1.70    0.85    YES
L0001019        0   0.39670E-05  486984.8 3765951.2   543.5    0.00    1.70    0.85    YES
L0001020        0   0.39670E-05  486988.2 3765950.0   543.7    0.00    1.70    0.85    YES
L0001021        0   0.39670E-05  486991.7 3765948.8   543.8    0.00    1.70    0.85    YES
L0001022        0   0.39670E-05  486995.1 3765947.6   543.9    0.00    1.70    0.85    YES
L0001023        0   0.39670E-05  486998.6 3765946.4   544.0    0.00    1.70    0.85    YES
L0001024        0   0.39670E-05  487002.0 3765945.1   544.1    0.00    1.70    0.85    YES
L0001025        0   0.39670E-05  487005.5 3765943.9   544.2    0.00    1.70    0.85    YES
L0001026        0   0.39670E-05  487008.9 3765942.7   544.3    0.00    1.70    0.85    YES
L0001027        0   0.39670E-05  487012.4 3765941.5   544.3    0.00    1.70    0.85    YES
L0001028        0   0.39670E-05  487015.8 3765940.3   544.4    0.00    1.70    0.85    YES
L0001029        0   0.39670E-05  487019.3 3765939.0   544.5    0.00    1.70    0.85    YES
L0001030        0   0.39670E-05  487022.7 3765937.7   544.5    0.00    1.70    0.85    YES
L0001031        0   0.39670E-05  487026.1 3765936.4   544.7    0.00    1.70    0.85    YES
L0001032        0   0.39670E-05  487029.5 3765935.1   544.9    0.00    1.70    0.85    YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001033	0	0.39670E-05	487032.9	3765933.7	545.0	0.00	1.70	0.85	YES	
L0001034	0	0.39670E-05	487036.3	3765932.4	545.2	0.00	1.70	0.85	YES	
L0001035	0	0.39670E-05	487039.7	3765931.0	545.4	0.00	1.70	0.85	YES	
L0001036	0	0.39670E-05	487043.1	3765929.7	545.6	0.00	1.70	0.85	YES	
L0001037	0	0.39670E-05	487046.5	3765928.4	545.8	0.00	1.70	0.85	YES	
L0001038	0	0.39670E-05	487049.9	3765927.0	546.0	0.00	1.70	0.85	YES	
L0001039	0	0.39670E-05	487053.3	3765925.7	546.2	0.00	1.70	0.85	YES	

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L0001040      0   0.39670E-05  487056.7 3765924.3   546.4    0.00    1.70    0.85      YES
L0001041      0   0.39670E-05  487060.1 3765923.0   546.6    0.00    1.70    0.85      YES
L0001042      0   0.39670E-05  487063.5 3765921.7   546.7    0.00    1.70    0.85      YES
L0001043      0   0.39670E-05  487066.9 3765920.3   546.9    0.00    1.70    0.85      YES
L0001044      0   0.39670E-05  487070.3 3765919.0   547.0    0.00    1.70    0.85      YES
L0001045      0   0.39670E-05  487073.7 3765917.6   547.2    0.00    1.70    0.85      YES
L0001046      0   0.39670E-05  487077.1 3765916.3   547.3    0.00    1.70    0.85      YES
L0001047      0   0.39670E-05  487080.5 3765915.0   547.4    0.00    1.70    0.85      YES
L0001048      0   0.39670E-05  487083.9 3765913.6   547.5    0.00    1.70    0.85      YES
L0001049      0   0.39670E-05  487087.3 3765912.3   547.6    0.00    1.70    0.85      YES
L0001050      0   0.39670E-05  487090.7 3765910.9   547.6    0.00    1.70    0.85      YES
L0001051      0   0.39670E-05  487094.1 3765909.6   547.7    0.00    1.70    0.85      YES
L0001052      0   0.39670E-05  487097.5 3765908.3   547.7    0.00    1.70    0.85      YES
L0001053      0   0.39670E-05  487100.9 3765906.9   547.8    0.00    1.70    0.85      YES
L0001054      0   0.39670E-05  487104.4 3765905.6   547.9    0.00    1.70    0.85      YES
L0001055      0   0.39670E-05  487107.8 3765904.2   548.0    0.00    1.70    0.85      YES
L0001056      0   0.39670E-05  487111.2 3765902.9   548.2    0.00    1.70    0.85      YES
L0001057      0   0.39670E-05  487114.6 3765901.6   548.3    0.00    1.70    0.85      YES
L0001058      0   0.39670E-05  487118.0 3765900.2   548.6    0.00    1.70    0.85      YES
L0001059      0   0.39670E-05  487121.4 3765898.9   548.8    0.00    1.70    0.85      YES
L0001060      0   0.39670E-05  487124.8 3765897.5   549.0    0.00    1.70    0.85      YES
L0001061      0   0.39670E-05  487128.2 3765896.2   549.2    0.00    1.70    0.85      YES
L0001062      0   0.39670E-05  487131.5 3765894.7   549.5    0.00    1.70    0.85      YES
L0001063      0   0.39670E-05  487134.8 3765893.2   549.7    0.00    1.70    0.85      YES
L0001064      0   0.39670E-05  487138.2 3765891.7   549.9    0.00    1.70    0.85      YES
L0001065      0   0.39670E-05  487141.5 3765890.2   550.2    0.00    1.70    0.85      YES
L0001066      0   0.39670E-05  487144.9 3765888.7   550.8    0.00    1.70    0.85      YES
L0001067      0   0.39670E-05  487148.2 3765887.2   551.3    0.00    1.70    0.85      YES
L0001068      0   0.39670E-05  487151.6 3765885.8   551.8    0.00    1.70    0.85      YES
L0001069      0   0.39670E-05  487154.9 3765884.3   552.3    0.00    1.70    0.85      YES
L0001070      0   0.39670E-05  487158.2 3765882.8   552.8    0.00    1.70    0.85      YES
L0001071      0   0.39670E-05  487161.6 3765881.3   553.2    0.00    1.70    0.85      YES
L0001072      0   0.39670E-05  487164.9 3765879.8   553.6    0.00    1.70    0.85      YES
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*** VOLUME SOURCE DATA ***

| | NUMBER | EMISSION RATE | | | BASE | RELEASE | INIT. | INIT. | URBAN | EMISSION RATE |
| SOURCE | PART. | (GRAMS/SEC) | X | Y | ELEV. | HEIGHT | SY | SZ | SOURCE | SCALAR VARY |
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		BY
L0001073	0	0.39670E-05	487168.3	3765878.3	554.0	0.00	1.70	0.85	YES	
L0001074	0	0.39670E-05	487171.6	3765876.8	554.4	0.00	1.70	0.85	YES	
L0001075	0	0.39670E-05	487174.9	3765875.4	554.8	0.00	1.70	0.85	YES	
L0001076	0	0.39670E-05	487178.3	3765873.9	555.1	0.00	1.70	0.85	YES	

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L0001077          0   0.39670E-05   487181.6 3765872.4    555.4      0.00     1.70     0.85     YES
L0001078          0   0.39670E-05   487185.0 3765870.9    555.7      0.00     1.70     0.85     YES
L0001079          0   0.39670E-05   487188.3 3765869.4    555.9      0.00     1.70     0.85     YES
L0001080          0   0.39670E-05   487191.7 3765867.9    556.1      0.00     1.70     0.85     YES
L0001081          0   0.39670E-05   487195.0 3765866.4    555.8      0.00     1.70     0.85     YES
L0001082          0   0.39670E-05   487198.3 3765865.0    555.4      0.00     1.70     0.85     YES
L0001083          0   0.39670E-05   487201.7 3765863.5    555.1      0.00     1.70     0.85     YES
L0001084          0   0.39670E-05   487205.0 3765862.0    554.8      0.00     1.70     0.85     YES
L0001085          0   0.39670E-05   487208.4 3765860.5    554.6      0.00     1.70     0.85     YES
L0001086          0   0.39670E-05   487211.7 3765859.0    554.4      0.00     1.70     0.85     YES
L0001087          0   0.39670E-05   487215.1 3765857.5    554.2      0.00     1.70     0.85     YES
L0001088          0   0.39670E-05   487218.4 3765856.0    554.2      0.00     1.70     0.85     YES
L0001089          0   0.39670E-05   487221.7 3765854.6    554.3      0.00     1.70     0.85     YES
L0001090          0   0.39670E-05   487225.1 3765853.1    554.4      0.00     1.70     0.85     YES
L0001091          0   0.39670E-05   487228.4 3765851.6    554.5      0.00     1.70     0.85     YES
L0001092          0   0.39670E-05   487231.8 3765850.1    554.6      0.00     1.70     0.85     YES
L0001093          0   0.39670E-05   487235.1 3765848.6    554.7      0.00     1.70     0.85     YES
L0001094          0   0.39670E-05   487238.5 3765847.1    554.8      0.00     1.70     0.85     YES
L0001095          0   0.39670E-05   487241.8 3765845.6    554.9      0.00     1.70     0.85     YES
L0001096          0   0.39670E-05   487245.1 3765844.2    555.1      0.00     1.70     0.85     YES
L0001097          0   0.39670E-05   487248.5 3765842.7    555.4      0.00     1.70     0.85     YES
L0001098          0   0.39670E-05   487251.8 3765841.2    555.7      0.00     1.70     0.85     YES
L0001099          0   0.39670E-05   487255.2 3765839.7    556.0      0.00     1.70     0.85     YES
L0001100          0   0.39670E-05   487258.4 3765838.0    556.3      0.00     1.70     0.85     YES
L0001101          0   0.39670E-05   487261.6 3765836.3    556.5      0.00     1.70     0.85     YES
L0001102          0   0.39670E-05   487264.8 3765834.5    556.8      0.00     1.70     0.85     YES
L0001103          0   0.39670E-05   487268.0 3765832.8    557.0      0.00     1.70     0.85     YES
L0001104          0   0.39670E-05   487271.2 3765831.0    557.3      0.00     1.70     0.85     YES
L0001105          0   0.39670E-05   487274.5 3765829.2    557.7      0.00     1.70     0.85     YES
L0001106          0   0.39670E-05   487277.7 3765827.5    557.9      0.00     1.70     0.85     YES
L0001107          0   0.39670E-05   487280.9 3765825.7    558.2      0.00     1.70     0.85     YES
L0001108          0   0.39670E-05   487284.1 3765824.0    558.4      0.00     1.70     0.85     YES
L0001109          0   0.39670E-05   487287.3 3765822.2    558.6      0.00     1.70     0.85     YES
L0001110          0   0.39670E-05   487290.5 3765820.5    558.7      0.00     1.70     0.85     YES
L0001111          0   0.39670E-05   487293.7 3765818.7    558.8      0.00     1.70     0.85     YES
L0001112          0   0.39670E-05   487296.9 3765817.0    558.9      0.00     1.70     0.85     YES
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*** 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
L0001113	0	0.39670E-05	487300.1	3765815.2	559.0	0.00	1.70	0.85	YES	

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L0001114        0   0.39670E-05   487303.3 3765813.5   559.1    0.00    1.70    0.85    YES
L0001115        0   0.39670E-05   487306.6 3765811.7   559.3    0.00    1.70    0.85    YES
L0001116        0   0.39670E-05   487309.8 3765810.0   559.5    0.00    1.70    0.85    YES
L0001117        0   0.39670E-05   487313.0 3765808.2   559.7    0.00    1.70    0.85    YES
L0001118        0   0.39670E-05   487316.2 3765806.5   559.9    0.00    1.70    0.85    YES
L0001119        0   0.39670E-05   487319.4 3765804.7   560.1    0.00    1.70    0.85    YES
L0001120        0   0.39670E-05   487322.6 3765802.9   560.4    0.00    1.70    0.85    YES
L0001121        0   0.39670E-05   487325.8 3765801.2   560.8    0.00    1.70    0.85    YES
L0001122        0   0.39670E-05   487329.0 3765799.4   561.2    0.00    1.70    0.85    YES
L0001123        0   0.39670E-05   487332.2 3765797.7   561.5    0.00    1.70    0.85    YES
L0001124        0   0.39670E-05   487335.4 3765795.9   561.8    0.00    1.70    0.85    YES
L0001125        0   0.39670E-05   487338.7 3765794.2   562.0    0.00    1.70    0.85    YES
L0001126        0   0.39670E-05   487341.9 3765792.4   562.2    0.00    1.70    0.85    YES
L0001127        0   0.39670E-05   487345.1 3765790.7   562.4    0.00    1.70    0.85    YES
L0001128        0   0.39670E-05   487348.3 3765788.9   562.8    0.00    1.70    0.85    YES
L0001129        0   0.39670E-05   487351.5 3765787.2   563.2    0.00    1.70    0.85    YES
L0001130        0   0.39670E-05   487354.7 3765785.4   563.6    0.00    1.70    0.85    YES
L0001131        0   0.39670E-05   487357.9 3765783.7   563.9    0.00    1.70    0.85    YES
L0001132        0   0.39670E-05   487361.1 3765781.9   564.3    0.00    1.70    0.85    YES
L0001133        0   0.39670E-05   487364.3 3765780.2   564.6    0.00    1.70    0.85    YES
L0001134        0   0.39670E-05   487367.6 3765778.4   565.0    0.00    1.70    0.85    YES
L0001135        0   0.39670E-05   487370.8 3765776.8   565.2    0.00    1.70    0.85    YES
L0001136        0   0.39670E-05   487374.1 3765775.1   565.5    0.00    1.70    0.85    YES
L0001137        0   0.39670E-05   487377.3 3765773.4   565.8    0.00    1.70    0.85    YES
L0001138        0   0.39670E-05   487380.5 3765771.7   566.0    0.00    1.70    0.85    YES
L0001139        0   0.39670E-05   487383.8 3765770.0   566.2    0.00    1.70    0.85    YES
L0001140        0   0.39670E-05   487387.0 3765768.3   566.4    0.00    1.70    0.85    YES
L0001141        0   0.39670E-05   487390.3 3765766.6   566.5    0.00    1.70    0.85    YES
L0001142        0   0.39670E-05   487393.5 3765764.9   566.6    0.00    1.70    0.85    YES
L0001143        0   0.39670E-05   487396.8 3765763.2   566.7    0.00    1.70    0.85    YES
L0001144        0   0.39670E-05   487400.0 3765761.5   567.1    0.00    1.70    0.85    YES
L0001145        0   0.39670E-05   487403.2 3765759.8   567.5    0.00    1.70    0.85    YES
L0001146        0   0.39670E-05   487406.5 3765758.1   567.8    0.00    1.70    0.85    YES
L0001147        0   0.39670E-05   487409.7 3765756.4   568.1    0.00    1.70    0.85    YES
L0001148        0   0.39670E-05   487413.0 3765754.8   568.3    0.00    1.70    0.85    YES
L0001149        0   0.39670E-05   487416.2 3765753.1   568.5    0.00    1.70    0.85    YES
L0001150        0   0.39670E-05   487419.5 3765751.4   568.9    0.00    1.70    0.85    YES
L0001151        0   0.39670E-05   487422.7 3765749.7   569.3    0.00    1.70    0.85    YES
L0001152        0   0.39670E-05   487425.9 3765748.0   570.1    0.00    1.70    0.85    YES
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*** 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

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L0001153         0   0.39670E-05   487429.2 3765746.3   570.8    0.00    1.70    0.85     YES
L0001154         0   0.39670E-05   487432.4 3765744.6   571.4    0.00    1.70    0.85     YES
L0001155         0   0.39670E-05   487435.7 3765742.9   571.8    0.00    1.70    0.85     YES
L0001156         0   0.39670E-05   487438.9 3765741.2   572.2    0.00    1.70    0.85     YES
L0001157         0   0.39670E-05   487442.2 3765739.5   572.5    0.00    1.70    0.85     YES
L0001158         0   0.39670E-05   487445.4 3765737.8   572.7    0.00    1.70    0.85     YES
L0001159         0   0.39670E-05   487448.6 3765736.1   572.8    0.00    1.70    0.85     YES
L0001160         0   0.39670E-05   487451.8 3765734.4   573.0    0.00    1.70    0.85     YES
L0001161         0   0.39670E-05   487455.1 3765732.7   573.1    0.00    1.70    0.85     YES
L0001162         0   0.39670E-05   487458.3 3765730.9   573.1    0.00    1.70    0.85     YES
L0001163         0   0.39670E-05   487461.5 3765729.2   573.1    0.00    1.70    0.85     YES
L0001164         0   0.39670E-05   487464.7 3765727.5   573.0    0.00    1.70    0.85     YES
L0001165         0   0.39670E-05   487468.0 3765725.8   572.9    0.00    1.70    0.85     YES
L0001166         0   0.39670E-05   487471.2 3765724.0   572.7    0.00    1.70    0.85     YES
L0001167         0   0.39670E-05   487474.4 3765722.3   572.4    0.00    1.70    0.85     YES
L0001168         0   0.39670E-05   487477.7 3765720.6   572.5    0.00    1.70    0.85     YES
L0001169         0   0.39670E-05   487480.9 3765718.9   572.8    0.00    1.70    0.85     YES
L0001170         0   0.39670E-05   487484.1 3765717.2   573.1    0.00    1.70    0.85     YES
L0001171         0   0.39670E-05   487487.3 3765715.4   573.3    0.00    1.70    0.85     YES
L0001172         0   0.39670E-05   487490.6 3765713.7   573.5    0.00    1.70    0.85     YES
L0001173         0   0.39670E-05   487493.8 3765712.0   573.6    0.00    1.70    0.85     YES
L0001174         0   0.39670E-05   487497.0 3765710.3   573.7    0.00    1.70    0.85     YES
L0001175         0   0.39670E-05   487500.2 3765708.6   573.9    0.00    1.70    0.85     YES
L0001176         0   0.39670E-05   487503.5 3765706.8   574.2    0.00    1.70    0.85     YES
L0001177         0   0.39670E-05   487506.7 3765705.1   574.5    0.00    1.70    0.85     YES
L0001178         0   0.39670E-05   487509.9 3765703.4   574.8    0.00    1.70    0.85     YES
L0001179         0   0.39670E-05   487513.2 3765701.7   575.0    0.00    1.70    0.85     YES
L0001180         0   0.39670E-05   487516.4 3765699.9   575.2    0.00    1.70    0.85     YES
L0001181         0   0.39670E-05   487519.6 3765698.2   575.4    0.00    1.70    0.85     YES
L0001182         0   0.39670E-05   487522.8 3765696.5   575.5    0.00    1.70    0.85     YES
L0001183         0   0.39670E-05   487526.0 3765694.8   575.7    0.00    1.70    0.85     YES
L0001184         0   0.39670E-05   487529.3 3765693.0   576.1    0.00    1.70    0.85     YES
L0001185         0   0.39670E-05   487532.5 3765691.3   576.5    0.00    1.70    0.85     YES
L0001186         0   0.39670E-05   487535.7 3765689.6   577.1    0.00    1.70    0.85     YES
L0001187         0   0.39670E-05   487538.9 3765687.8   577.6    0.00    1.70    0.85     YES
L0001188         0   0.39670E-05   487542.2 3765686.1   578.1    0.00    1.70    0.85     YES
L0001189         0   0.39670E-05   487545.4 3765684.3   578.5    0.00    1.70    0.85     YES
L0001190         0   0.39670E-05   487548.6 3765682.6   578.8    0.00    1.70    0.85     YES
L0001191         0   0.39670E-05   487551.8 3765680.9   579.1    0.00    1.70    0.85     YES
L0001192         0   0.39670E-05   487555.0 3765679.1   579.5    0.00    1.70    0.85     YES

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***       08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                 ***       20:03:29
                                                                                                             PAGE   9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                    *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001193	0	0.39670E-05	487558.3	3765677.4	579.8	0.00	1.70	0.85	YES	
L0001194	0	0.39670E-05	487561.5	3765675.7	580.1	0.00	1.70	0.85	YES	
L0001195	0	0.39670E-05	487564.7	3765673.9	580.2	0.00	1.70	0.85	YES	
L0001196	0	0.39670E-05	487567.9	3765672.2	580.2	0.00	1.70	0.85	YES	
L0001197	0	0.39670E-05	487571.1	3765670.5	580.1	0.00	1.70	0.85	YES	
L0001198	0	0.39670E-05	487574.3	3765668.7	579.9	0.00	1.70	0.85	YES	
L0001199	0	0.39670E-05	487577.5	3765666.8	579.6	0.00	1.70	0.85	YES	
L0001200	0	0.39670E-05	487580.6	3765664.9	579.5	0.00	1.70	0.85	YES	
L0001201	0	0.39670E-05	487583.7	3765663.0	579.2	0.00	1.70	0.85	YES	
L0001202	0	0.39670E-05	487586.8	3765661.1	578.9	0.00	1.70	0.85	YES	
L0001203	0	0.39670E-05	487590.0	3765659.2	578.9	0.00	1.70	0.85	YES	
L0001204	0	0.39670E-05	487593.1	3765657.3	579.3	0.00	1.70	0.85	YES	
L0001205	0	0.39670E-05	487596.2	3765655.4	579.6	0.00	1.70	0.85	YES	
L0001206	0	0.39670E-05	487599.4	3765653.6	579.9	0.00	1.70	0.85	YES	
L0001207	0	0.39670E-05	487602.5	3765651.7	580.1	0.00	1.70	0.85	YES	
L0001208	0	0.39670E-05	487605.6	3765649.8	580.1	0.00	1.70	0.85	YES	
L0001209	0	0.39670E-05	487608.8	3765647.9	580.1	0.00	1.70	0.85	YES	
L0001210	0	0.39670E-05	487612.0	3765646.2	580.1	0.00	1.70	0.85	YES	
L0001211	0	0.39670E-05	487615.3	3765644.6	580.2	0.00	1.70	0.85	YES	
L0001212	0	0.39670E-05	487618.6	3765643.0	580.2	0.00	1.70	0.85	YES	
L0001213	0	0.39670E-05	487621.9	3765641.4	580.1	0.00	1.70	0.85	YES	
L0001214	0	0.39670E-05	487625.2	3765639.8	580.1	0.00	1.70	0.85	YES	
L0001215	0	0.39670E-05	487628.5	3765638.2	579.9	0.00	1.70	0.85	YES	
L0001216	0	0.39670E-05	487631.8	3765636.6	579.6	0.00	1.70	0.85	YES	
L0001217	0	0.39670E-05	487635.1	3765635.1	579.5	0.00	1.70	0.85	YES	
L0001218	0	0.39800E-05	486606.8	3766048.4	528.6	0.00	1.70	0.85	YES	
L0001219	0	0.39800E-05	486610.3	3766047.3	528.8	0.00	1.70	0.85	YES	
L0001220	0	0.39800E-05	486613.8	3766046.2	528.9	0.00	1.70	0.85	YES	
L0001221	0	0.39800E-05	486617.3	3766045.0	529.0	0.00	1.70	0.85	YES	
L0001222	0	0.39800E-05	486620.7	3766043.9	529.1	0.00	1.70	0.85	YES	
L0001223	0	0.39800E-05	486624.2	3766042.8	529.2	0.00	1.70	0.85	YES	
L0001224	0	0.39800E-05	486627.7	3766041.6	529.4	0.00	1.70	0.85	YES	
L0001225	0	0.39800E-05	486631.2	3766040.5	529.5	0.00	1.70	0.85	YES	
L0001226	0	0.39800E-05	486634.6	3766039.3	529.7	0.00	1.70	0.85	YES	
L0001227	0	0.39800E-05	486638.1	3766038.2	529.8	0.00	1.70	0.85	YES	
L0001228	0	0.39800E-05	486641.6	3766037.1	530.0	0.00	1.70	0.85	YES	
L0001229	0	0.39800E-05	486645.1	3766035.9	530.1	0.00	1.70	0.85	YES	
L0001230	0	0.39800E-05	486648.5	3766034.8	530.3	0.00	1.70	0.85	YES	
L0001231	0	0.39800E-05	486652.0	3766033.6	530.5	0.00	1.70	0.85	YES	
L0001232	0	0.39800E-05	486655.5	3766032.5	530.6	0.00	1.70	0.85	YES	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                        *** VOLUME SOURCE DATA ***


            NUMBER  EMISSION RATE                 BASE   RELEASE   INIT.   INIT.   URBAN   EMISSION RATE
  SOURCE    PART.   (GRAMS/SEC)     X        Y    ELEV.  HEIGHT     SY      SZ    SOURCE   SCALAR VARY
    ID      CATS.               (METERS) (METERS)(METERS)(METERS)(METERS)(METERS)             BY
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  L0001233     0   0.39800E-05  486659.0 3766031.4  530.8   0.00    1.70    0.85    YES
  L0001234     0   0.39800E-05  486662.5 3766030.2  530.9   0.00    1.70    0.85    YES
  L0001235     0   0.39800E-05  486665.9 3766029.1  531.0   0.00    1.70    0.85    YES
  L0001236     0   0.39800E-05  486669.4 3766028.0  531.1   0.00    1.70    0.85    YES
  L0001237     0   0.39800E-05  486672.9 3766026.8  531.2   0.00    1.70    0.85    YES
  L0001238     0   0.39800E-05  486676.4 3766025.7  531.3   0.00    1.70    0.85    YES
  L0001239     0   0.39800E-05  486679.8 3766024.5  531.4   0.00    1.70    0.85    YES
  L0001240     0   0.39800E-05  486683.3 3766023.4  531.5   0.00    1.70    0.85    YES
  L0001241     0   0.39800E-05  486686.8 3766022.3  531.6   0.00    1.70    0.85    YES
  L0001242     0   0.39800E-05  486690.3 3766021.1  531.7   0.00    1.70    0.85    YES
  L0001243     0   0.39800E-05  486693.7 3766020.0  531.9   0.00    1.70    0.85    YES
  L0001244     0   0.39800E-05  486697.2 3766018.9  532.0   0.00    1.70    0.85    YES
  L0001245     0   0.39800E-05  486700.7 3766017.7  532.1   0.00    1.70    0.85    YES
  L0001246     0   0.39800E-05  486704.2 3766016.6  532.3   0.00    1.70    0.85    YES
  L0001247     0   0.39800E-05  486707.6 3766015.4  532.4   0.00    1.70    0.85    YES
  L0001248     0   0.39800E-05  486711.1 3766014.3  532.6   0.00    1.70    0.85    YES
  L0001249     0   0.39800E-05  486714.6 3766013.2  532.8   0.00    1.70    0.85    YES
  L0001250     0   0.39800E-05  486718.1 3766012.0  532.9   0.00    1.70    0.85    YES
  L0001251     0   0.39800E-05  486721.5 3766010.9  533.1   0.00    1.70    0.85    YES
  L0001252     0   0.39800E-05  486725.0 3766009.7  533.2   0.00    1.70    0.85    YES
  L0001253     0   0.39800E-05  486728.5 3766008.6  533.4   0.00    1.70    0.85    YES
  L0001254     0   0.39800E-05  486732.0 3766007.5  533.6   0.00    1.70    0.85    YES
  L0001255     0   0.39800E-05  486735.4 3766006.3  533.8   0.00    1.70    0.85    YES
  L0001256     0   0.39800E-05  486738.9 3766005.2  534.0   0.00    1.70    0.85    YES
  L0001257     0   0.39800E-05  486742.4 3766004.0  534.1   0.00    1.70    0.85    YES
  L0001258     0   0.39800E-05  486745.8 3766002.8  534.3   0.00    1.70    0.85    YES
  L0001259     0   0.39800E-05  486749.3 3766001.6  534.5   0.00    1.70    0.85    YES
  L0001260     0   0.39800E-05  486752.7 3766000.4  534.7   0.00    1.70    0.85    YES
  L0001261     0   0.39800E-05  486756.2 3765999.2  534.8   0.00    1.70    0.85    YES
  L0001262     0   0.39800E-05  486759.7 3765998.0  534.9   0.00    1.70    0.85    YES
  L0001263     0   0.39800E-05  486763.1 3765996.8  535.0   0.00    1.70    0.85    YES
  L0001264     0   0.39800E-05  486766.6 3765995.6  535.1   0.00    1.70    0.85    YES
  L0001265     0   0.39800E-05  486770.0 3765994.4  535.2   0.00    1.70    0.85    YES
  L0001266     0   0.39800E-05  486773.5 3765993.1  535.3   0.00    1.70    0.85    YES
  L0001267     0   0.39800E-05  486776.9 3765991.9  535.4   0.00    1.70    0.85    YES
  L0001268     0   0.39800E-05  486780.4 3765990.7  535.6   0.00    1.70    0.85    YES
  L0001269     0   0.39800E-05  486783.8 3765989.5  535.7   0.00    1.70    0.85    YES
  L0001270     0   0.39800E-05  486787.3 3765988.3  535.8   0.00    1.70    0.85    YES
  L0001271     0   0.39800E-05  486790.7 3765987.1  536.0   0.00    1.70    0.85    YES
  L0001272     0   0.39800E-05  486794.2 3765985.9  536.1   0.00    1.70    0.85    YES

 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                       ***      08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                ***      20:03:29
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                        *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001273	0	0.39800E-05	486797.6	3765984.7	536.3	0.00	1.70	0.85	YES	
L0001274	0	0.39800E-05	486801.1	3765983.4	536.4	0.00	1.70	0.85	YES	
L0001275	0	0.39800E-05	486804.5	3765982.2	536.6	0.00	1.70	0.85	YES	
L0001276	0	0.39800E-05	486808.0	3765981.0	536.8	0.00	1.70	0.85	YES	
L0001277	0	0.39800E-05	486811.4	3765979.8	537.0	0.00	1.70	0.85	YES	
L0001278	0	0.39800E-05	486814.9	3765978.6	537.1	0.00	1.70	0.85	YES	
L0001279	0	0.39800E-05	486818.3	3765977.4	537.3	0.00	1.70	0.85	YES	
L0001280	0	0.39800E-05	486821.8	3765976.2	537.5	0.00	1.70	0.85	YES	
L0001281	0	0.39800E-05	486825.2	3765975.0	537.7	0.00	1.70	0.85	YES	
L0001282	0	0.39800E-05	486828.7	3765973.8	537.9	0.00	1.70	0.85	YES	
L0001283	0	0.39800E-05	486832.1	3765972.5	538.0	0.00	1.70	0.85	YES	
L0001284	0	0.39800E-05	486835.6	3765971.3	538.2	0.00	1.70	0.85	YES	
L0001285	0	0.39800E-05	486839.0	3765970.1	538.4	0.00	1.70	0.85	YES	
L0001286	0	0.39800E-05	486842.5	3765969.0	538.6	0.00	1.70	0.85	YES	
L0001287	0	0.39800E-05	486846.0	3765967.9	538.7	0.00	1.70	0.85	YES	
L0001288	0	0.39800E-05	486849.5	3765966.8	538.8	0.00	1.70	0.85	YES	
L0001289	0	0.39800E-05	486852.9	3765965.6	538.9	0.00	1.70	0.85	YES	
L0001290	0	0.39800E-05	486856.4	3765964.5	539.0	0.00	1.70	0.85	YES	
L0001291	0	0.39800E-05	486859.9	3765963.4	539.1	0.00	1.70	0.85	YES	
L0001292	0	0.39800E-05	486863.4	3765962.3	539.2	0.00	1.70	0.85	YES	
L0001293	0	0.39800E-05	486866.9	3765961.1	539.3	0.00	1.70	0.85	YES	
L0001294	0	0.39800E-05	486870.3	3765960.0	539.4	0.00	1.70	0.85	YES	
L0001295	0	0.39800E-05	486873.8	3765958.9	539.6	0.00	1.70	0.85	YES	
L0001296	0	0.39800E-05	486877.3	3765957.8	539.7	0.00	1.70	0.85	YES	
L0001297	0	0.39800E-05	486880.8	3765956.6	539.8	0.00	1.70	0.85	YES	
L0001298	0	0.39800E-05	486884.3	3765955.5	540.0	0.00	1.70	0.85	YES	
L0001299	0	0.39800E-05	486887.8	3765954.4	540.1	0.00	1.70	0.85	YES	
L0001300	0	0.39800E-05	486891.2	3765953.3	540.3	0.00	1.70	0.85	YES	
L0001301	0	0.39800E-05	486894.7	3765952.1	540.4	0.00	1.70	0.85	YES	
L0001302	0	0.39800E-05	486898.2	3765951.0	540.6	0.00	1.70	0.85	YES	
L0001303	0	0.39800E-05	486901.7	3765949.9	540.7	0.00	1.70	0.85	YES	
L0001304	0	0.39800E-05	486905.2	3765948.8	540.9	0.00	1.70	0.85	YES	
L0001305	0	0.39800E-05	486908.6	3765947.6	541.1	0.00	1.70	0.85	YES	
L0001306	0	0.39800E-05	486912.1	3765946.5	541.2	0.00	1.70	0.85	YES	
L0001307	0	0.39800E-05	486915.6	3765945.4	541.4	0.00	1.70	0.85	YES	
L0001308	0	0.39800E-05	486919.1	3765944.3	541.6	0.00	1.70	0.85	YES	
L0001309	0	0.39800E-05	486922.6	3765943.1	541.8	0.00	1.70	0.85	YES	
L0001310	0	0.39800E-05	486926.0	3765942.0	541.9	0.00	1.70	0.85	YES	
L0001311	0	0.39800E-05	486929.5	3765940.9	542.1	0.00	1.70	0.85	YES	
L0001312	0	0.39800E-05	486933.0	3765939.8	542.3	0.00	1.70	0.85	YES	

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                                    *** VOLUME SOURCE DATA ***


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

  L0001313     0   0.39800E-05  486936.5 3765938.6   542.5    0.00    1.70     0.85    YES
  L0001314     0   0.39800E-05  486940.0 3765937.5   542.6    0.00    1.70     0.85    YES
  L0001315     0   0.39800E-05  486943.4 3765936.4   542.7    0.00    1.70     0.85    YES
  L0001316     0   0.39800E-05  486946.9 3765935.3   542.8    0.00    1.70     0.85    YES
  L0001317     0   0.39800E-05  486950.4 3765934.2   542.9    0.00    1.70     0.85    YES
  L0001318     0   0.39800E-05  486953.9 3765933.0   543.0    0.00    1.70     0.85    YES
  L0001319     0   0.39800E-05  486957.4 3765931.9   543.2    0.00    1.70     0.85    YES
  L0001320     0   0.39800E-05  486960.9 3765930.8   543.3    0.00    1.70     0.85    YES
  L0001321     0   0.39800E-05  486964.3 3765929.7   543.4    0.00    1.70     0.85    YES
  L0001322     0   0.39800E-05  486967.8 3765928.6   543.5    0.00    1.70     0.85    YES
  L0001323     0   0.39800E-05  486971.3 3765927.4   543.6    0.00    1.70     0.85    YES
  L0001324     0   0.39800E-05  486974.8 3765926.3   543.8    0.00    1.70     0.85    YES
  L0001325     0   0.39800E-05  486978.3 3765925.2   543.9    0.00    1.70     0.85    YES
  L0001326     0   0.39800E-05  486981.7 3765924.1   544.0    0.00    1.70     0.85    YES
  L0001327     0   0.39800E-05  486985.2 3765922.9   544.2    0.00    1.70     0.85    YES
  L0001328     0   0.39800E-05  486988.7 3765921.8   544.3    0.00    1.70     0.85    YES
  L0001329     0   0.39800E-05  486992.2 3765920.7   544.4    0.00    1.70     0.85    YES
  L0001330     0   0.39800E-05  486995.7 3765919.5   544.6    0.00    1.70     0.85    YES
  L0001331     0   0.39800E-05  486999.1 3765918.4   544.8    0.00    1.70     0.85    YES
  L0001332     0   0.39800E-05  487002.6 3765917.2   544.9    0.00    1.70     0.85    YES
  L0001333     0   0.39800E-05  487006.0 3765916.0   545.1    0.00    1.70     0.85    YES
  L0001334     0   0.39800E-05  487009.5 3765914.8   545.3    0.00    1.70     0.85    YES
  L0001335     0   0.39800E-05  487013.0 3765913.6   545.4    0.00    1.70     0.85    YES
  L0001336     0   0.39800E-05  487016.4 3765912.4   545.6    0.00    1.70     0.85    YES
  L0001337     0   0.39800E-05  487019.9 3765911.2   545.8    0.00    1.70     0.85    YES
  L0001338     0   0.39800E-05  487023.3 3765910.1   546.0    0.00    1.70     0.85    YES
  L0001339     0   0.39800E-05  487026.8 3765908.9   546.1    0.00    1.70     0.85    YES
  L0001340     0   0.39800E-05  487030.3 3765907.7   546.3    0.00    1.70     0.85    YES
  L0001341     0   0.39800E-05  487033.7 3765906.5   546.5    0.00    1.70     0.85    YES
  L0001342     0   0.39800E-05  487037.2 3765905.3   546.7    0.00    1.70     0.85    YES
  L0001343     0   0.39800E-05  487040.6 3765904.1   546.9    0.00    1.70     0.85    YES
  L0001344     0   0.39800E-05  487044.1 3765902.9   547.0    0.00    1.70     0.85    YES
  L0001345     0   0.39800E-05  487047.6 3765901.8   547.2    0.00    1.70     0.85    YES
  L0001346     0   0.39800E-05  487051.0 3765900.6   547.3    0.00    1.70     0.85    YES
  L0001347     0   0.39800E-05  487054.5 3765899.4   547.5    0.00    1.70     0.85    YES
  L0001348     0   0.39800E-05  487057.9 3765898.2   547.6    0.00    1.70     0.85    YES
  L0001349     0   0.39800E-05  487061.4 3765897.0   547.7    0.00    1.70     0.85    YES
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L0001350       0   0.39800E-05  487064.9 3765895.8   547.8    0.00     1.70     0.85     YES
L0001351       0   0.39800E-05  487068.3 3765894.6   547.9    0.00     1.70     0.85     YES
L0001352       0   0.39800E-05  487071.8 3765893.5   548.0    0.00     1.70     0.85     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001353	0	0.39800E-05	487075.2	3765892.3	548.1	0.00	1.70	0.85	YES	
L0001354	0	0.39800E-05	487078.7	3765891.1	548.2	0.00	1.70	0.85	YES	
L0001355	0	0.39800E-05	487082.2	3765889.9	548.3	0.00	1.70	0.85	YES	
L0001356	0	0.39800E-05	487085.6	3765888.7	548.4	0.00	1.70	0.85	YES	
L0001357	0	0.39800E-05	487089.1	3765887.5	548.6	0.00	1.70	0.85	YES	
L0001358	0	0.39800E-05	487092.5	3765886.3	548.7	0.00	1.70	0.85	YES	
L0001359	0	0.39800E-05	487096.0	3765885.1	548.9	0.00	1.70	0.85	YES	
L0001360	0	0.39800E-05	487099.5	3765884.0	549.0	0.00	1.70	0.85	YES	
L0001361	0	0.39800E-05	487102.9	3765882.8	549.2	0.00	1.70	0.85	YES	
L0001362	0	0.39800E-05	487106.4	3765881.6	549.3	0.00	1.70	0.85	YES	
L0001363	0	0.39800E-05	487109.8	3765880.4	549.5	0.00	1.70	0.85	YES	
L0001364	0	0.39800E-05	487113.3	3765879.2	549.7	0.00	1.70	0.85	YES	
L0001365	0	0.39800E-05	487116.8	3765878.0	549.9	0.00	1.70	0.85	YES	
L0001366	0	0.39800E-05	487120.1	3765876.6	550.1	0.00	1.70	0.85	YES	
L0001367	0	0.39800E-05	487123.4	3765875.1	550.3	0.00	1.70	0.85	YES	
L0001368	0	0.39800E-05	487126.8	3765873.6	550.5	0.00	1.70	0.85	YES	
L0001369	0	0.39800E-05	487130.1	3765872.1	550.7	0.00	1.70	0.85	YES	
L0001370	0	0.39800E-05	487133.5	3765870.6	550.8	0.00	1.70	0.85	YES	
L0001371	0	0.39800E-05	487136.8	3765869.1	550.9	0.00	1.70	0.85	YES	
L0001372	0	0.39800E-05	487140.1	3765867.6	551.1	0.00	1.70	0.85	YES	
L0001373	0	0.39800E-05	487143.5	3765866.1	551.4	0.00	1.70	0.85	YES	
L0001374	0	0.39800E-05	487146.8	3765864.6	551.7	0.00	1.70	0.85	YES	
L0001375	0	0.39800E-05	487150.1	3765863.1	552.0	0.00	1.70	0.85	YES	
L0001376	0	0.39800E-05	487153.5	3765861.6	552.2	0.00	1.70	0.85	YES	
L0001377	0	0.39800E-05	487156.8	3765860.1	552.5	0.00	1.70	0.85	YES	
L0001378	0	0.39800E-05	487160.2	3765858.6	552.6	0.00	1.70	0.85	YES	
L0001379	0	0.39800E-05	487163.5	3765857.2	552.8	0.00	1.70	0.85	YES	
L0001380	0	0.39800E-05	487166.8	3765855.7	552.9	0.00	1.70	0.85	YES	
L0001381	0	0.39800E-05	487170.2	3765854.2	553.1	0.00	1.70	0.85	YES	
L0001382	0	0.39800E-05	487173.5	3765852.7	553.3	0.00	1.70	0.85	YES	
L0001383	0	0.39800E-05	487176.9	3765851.2	553.4	0.00	1.70	0.85	YES	
L0001384	0	0.39800E-05	487180.2	3765849.7	553.5	0.00	1.70	0.85	YES	
L0001385	0	0.39800E-05	487183.5	3765848.2	553.6	0.00	1.70	0.85	YES	
L0001386	0	0.39800E-05	487186.9	3765846.7	553.6	0.00	1.70	0.85	YES	

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L0001387         0   0.39800E-05  487190.2 3765845.2    553.6    0.00     1.70     0.85    YES
L0001388         0   0.39800E-05  487193.6 3765843.7    553.8    0.00     1.70     0.85    YES
L0001389         0   0.39800E-05  487196.9 3765842.2    553.9    0.00     1.70     0.85    YES
L0001390         0   0.39800E-05  487200.2 3765840.6    554.0    0.00     1.70     0.85    YES
L0001391         0   0.39800E-05  487203.5 3765839.0    554.2    0.00     1.70     0.85    YES
L0001392         0   0.39800E-05  487206.8 3765837.4    554.3    0.00     1.70     0.85    YES
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*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2026-2027   ***   20:03:29
                                                                                                                PAGE 14
*** 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
L0001393	0	0.39800E-05	487210.1	3765835.8	554.3	0.00	1.70	0.85	YES	
L0001394	0	0.39800E-05	487213.3	3765834.2	554.4	0.00	1.70	0.85	YES	
L0001395	0	0.39800E-05	487216.6	3765832.6	554.5	0.00	1.70	0.85	YES	
L0001396	0	0.39800E-05	487219.9	3765831.0	554.6	0.00	1.70	0.85	YES	
L0001397	0	0.39800E-05	487223.2	3765829.4	554.7	0.00	1.70	0.85	YES	
L0001398	0	0.39800E-05	487226.5	3765827.8	554.9	0.00	1.70	0.85	YES	
L0001399	0	0.39800E-05	487229.8	3765826.2	555.0	0.00	1.70	0.85	YES	
L0001400	0	0.39800E-05	487233.1	3765824.6	555.1	0.00	1.70	0.85	YES	
L0001401	0	0.39800E-05	487236.4	3765823.0	555.2	0.00	1.70	0.85	YES	
L0001402	0	0.39800E-05	487239.7	3765821.4	555.4	0.00	1.70	0.85	YES	
L0001403	0	0.39800E-05	487243.0	3765819.8	555.5	0.00	1.70	0.85	YES	
L0001404	0	0.39800E-05	487246.2	3765818.2	555.7	0.00	1.70	0.85	YES	
L0001405	0	0.39800E-05	487249.5	3765816.6	555.9	0.00	1.70	0.85	YES	
L0001406	0	0.39800E-05	487252.8	3765815.0	556.1	0.00	1.70	0.85	YES	
L0001407	0	0.39800E-05	487256.1	3765813.4	556.2	0.00	1.70	0.85	YES	
L0001408	0	0.39800E-05	487259.4	3765811.9	556.4	0.00	1.70	0.85	YES	
L0001409	0	0.39800E-05	487262.7	3765810.3	556.6	0.00	1.70	0.85	YES	
L0001410	0	0.39800E-05	487266.0	3765808.7	556.8	0.00	1.70	0.85	YES	
L0001411	0	0.39800E-05	487269.3	3765807.1	556.9	0.00	1.70	0.85	YES	
L0001412	0	0.39800E-05	487272.6	3765805.5	557.2	0.00	1.70	0.85	YES	
L0001413	0	0.39800E-05	487275.9	3765803.9	557.4	0.00	1.70	0.85	YES	
L0001414	0	0.39800E-05	487279.1	3765802.3	557.5	0.00	1.70	0.85	YES	
L0001415	0	0.39800E-05	487282.4	3765800.6	557.7	0.00	1.70	0.85	YES	
L0001416	0	0.39800E-05	487285.6	3765798.8	557.9	0.00	1.70	0.85	YES	
L0001417	0	0.39800E-05	487288.7	3765797.0	558.0	0.00	1.70	0.85	YES	
L0001418	0	0.39800E-05	487291.9	3765795.1	558.2	0.00	1.70	0.85	YES	
L0001419	0	0.39800E-05	487295.1	3765793.3	558.3	0.00	1.70	0.85	YES	
L0001420	0	0.39800E-05	487298.2	3765791.4	558.5	0.00	1.70	0.85	YES	
L0001421	0	0.39800E-05	487301.4	3765789.6	558.6	0.00	1.70	0.85	YES	
L0001422	0	0.39800E-05	487304.5	3765787.7	558.8	0.00	1.70	0.85	YES	
L0001423	0	0.39800E-05	487307.7	3765785.9	558.9	0.00	1.70	0.85	YES	

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L0001424        0   0.39800E-05  487310.9 3765784.1  559.0    0.00   1.70   0.85   YES
L0001425        0   0.39800E-05  487314.0 3765782.2  559.2    0.00   1.70   0.85   YES
L0001426        0   0.39800E-05  487317.2 3765780.4  559.4    0.00   1.70   0.85   YES
L0001427        0   0.39800E-05  487320.3 3765778.5  559.6    0.00   1.70   0.85   YES
L0001428        0   0.39800E-05  487323.5 3765776.7  559.8    0.00   1.70   0.85   YES
L0001429        0   0.39800E-05  487326.7 3765774.9  560.1    0.00   1.70   0.85   YES
L0001430        0   0.39800E-05  487329.8 3765773.0  560.3    0.00   1.70   0.85   YES
L0001431        0   0.39800E-05  487333.0 3765771.2  560.5    0.00   1.70   0.85   YES
L0001432        0   0.39800E-05  487336.1 3765769.3  560.7    0.00   1.70   0.85   YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001433	0	0.39800E-05	487339.3	3765767.5	560.9	0.00	1.70	0.85	YES	
L0001434	0	0.39800E-05	487342.5	3765765.7	561.0	0.00	1.70	0.85	YES	
L0001435	0	0.39800E-05	487345.7	3765763.9	561.2	0.00	1.70	0.85	YES	
L0001436	0	0.39800E-05	487348.8	3765762.1	561.4	0.00	1.70	0.85	YES	
L0001437	0	0.39800E-05	487352.0	3765760.3	561.6	0.00	1.70	0.85	YES	
L0001438	0	0.39800E-05	487355.2	3765758.4	561.7	0.00	1.70	0.85	YES	
L0001439	0	0.39800E-05	487358.4	3765756.6	561.8	0.00	1.70	0.85	YES	
L0001440	0	0.39800E-05	487361.5	3765754.8	561.9	0.00	1.70	0.85	YES	
L0001441	0	0.39800E-05	487364.7	3765753.0	561.8	0.00	1.70	0.85	YES	
L0001442	0	0.39800E-05	487367.9	3765751.2	562.0	0.00	1.70	0.85	YES	
L0001443	0	0.39800E-05	487371.1	3765749.4	562.1	0.00	1.70	0.85	YES	
L0001444	0	0.39800E-05	487374.3	3765747.6	562.4	0.00	1.70	0.85	YES	
L0001445	0	0.39800E-05	487377.4	3765745.8	562.6	0.00	1.70	0.85	YES	
L0001446	0	0.39800E-05	487380.6	3765743.9	562.9	0.00	1.70	0.85	YES	
L0001447	0	0.39800E-05	487383.8	3765742.1	563.1	0.00	1.70	0.85	YES	
L0001448	0	0.39800E-05	487387.0	3765740.3	563.3	0.00	1.70	0.85	YES	
L0001449	0	0.39800E-05	487390.1	3765738.5	563.5	0.00	1.70	0.85	YES	
L0001450	0	0.39800E-05	487393.3	3765736.7	563.7	0.00	1.70	0.85	YES	
L0001451	0	0.39800E-05	487396.5	3765734.9	563.8	0.00	1.70	0.85	YES	
L0001452	0	0.39800E-05	487399.7	3765733.1	564.1	0.00	1.70	0.85	YES	
L0001453	0	0.39800E-05	487402.9	3765731.3	564.4	0.00	1.70	0.85	YES	
L0001454	0	0.39800E-05	487406.0	3765729.4	564.5	0.00	1.70	0.85	YES	
L0001455	0	0.39800E-05	487409.2	3765727.6	564.6	0.00	1.70	0.85	YES	
L0001456	0	0.39800E-05	487412.4	3765725.9	564.7	0.00	1.70	0.85	YES	
L0001457	0	0.39800E-05	487415.7	3765724.2	564.7	0.00	1.70	0.85	YES	
L0001458	0	0.39800E-05	487418.9	3765722.5	564.7	0.00	1.70	0.85	YES	
L0001459	0	0.39800E-05	487422.1	3765720.8	564.7	0.00	1.70	0.85	YES	
L0001460	0	0.39800E-05	487425.4	3765719.1	565.0	0.00	1.70	0.85	YES	

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L0001461       0    0.39800E-05   487428.6 3765717.4    565.2    0.00     1.70     0.85     YES
L0001462       0    0.39800E-05   487431.9 3765715.8    565.5    0.00     1.70     0.85     YES
L0001463       0    0.39800E-05   487435.1 3765714.1    565.7    0.00     1.70     0.85     YES
L0001464       0    0.39800E-05   487438.4 3765712.4    566.0    0.00     1.70     0.85     YES
L0001465       0    0.39800E-05   487441.6 3765710.7    566.2    0.00     1.70     0.85     YES
L0001466       0    0.39800E-05   487444.9 3765709.0    566.4    0.00     1.70     0.85     YES
L0001467       0    0.39800E-05   487448.1 3765707.3    566.6    0.00     1.70     0.85     YES
L0001468       0    0.39800E-05   487451.4 3765705.6    566.9    0.00     1.70     0.85     YES
L0001469       0    0.39800E-05   487454.6 3765704.0    567.2    0.00     1.70     0.85     YES
L0001470       0    0.39800E-05   487457.9 3765702.3    567.4    0.00     1.70     0.85     YES
L0001471       0    0.39800E-05   487461.1 3765700.6    567.6    0.00     1.70     0.85     YES
L0001472       0    0.39800E-05   487464.3 3765698.9    567.7    0.00     1.70     0.85     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001473	0	0.39800E-05	487467.6	3765697.2	567.8	0.00	1.70	0.85	YES	
L0001474	0	0.39800E-05	487470.8	3765695.5	567.8	0.00	1.70	0.85	YES	
L0001475	0	0.39800E-05	487474.1	3765693.9	567.8	0.00	1.70	0.85	YES	
L0001476	0	0.39800E-05	487477.3	3765692.2	567.8	0.00	1.70	0.85	YES	
L0001477	0	0.39800E-05	487480.6	3765690.5	567.8	0.00	1.70	0.85	YES	
L0001478	0	0.39800E-05	487483.8	3765688.8	568.1	0.00	1.70	0.85	YES	
L0001479	0	0.39800E-05	487487.1	3765687.1	568.3	0.00	1.70	0.85	YES	
L0001480	0	0.39800E-05	487490.3	3765685.4	568.5	0.00	1.70	0.85	YES	
L0001481	0	0.39800E-05	487493.6	3765683.8	568.7	0.00	1.70	0.85	YES	
L0001482	0	0.39800E-05	487496.8	3765682.1	568.9	0.00	1.70	0.85	YES	
L0001483	0	0.39800E-05	487500.1	3765680.4	569.2	0.00	1.70	0.85	YES	
L0001484	0	0.39800E-05	487503.3	3765678.7	569.5	0.00	1.70	0.85	YES	
L0001485	0	0.39800E-05	487506.6	3765677.0	569.9	0.00	1.70	0.85	YES	
L0001486	0	0.39800E-05	487509.8	3765675.3	570.1	0.00	1.70	0.85	YES	
L0001487	0	0.39800E-05	487513.1	3765673.7	570.4	0.00	1.70	0.85	YES	
L0001488	0	0.39800E-05	487516.3	3765672.0	570.5	0.00	1.70	0.85	YES	
L0001489	0	0.39800E-05	487519.5	3765670.3	570.7	0.00	1.70	0.85	YES	
L0001490	0	0.39800E-05	487522.8	3765668.6	570.8	0.00	1.70	0.85	YES	
L0001491	0	0.39800E-05	487526.0	3765666.9	570.8	0.00	1.70	0.85	YES	
L0001492	0	0.39800E-05	487529.3	3765665.2	570.9	0.00	1.70	0.85	YES	
L0001493	0	0.39800E-05	487532.5	3765663.4	570.9	0.00	1.70	0.85	YES	
L0001494	0	0.39800E-05	487535.7	3765661.6	570.9	0.00	1.70	0.85	YES	
L0001495	0	0.39800E-05	487538.9	3765659.9	570.7	0.00	1.70	0.85	YES	
L0001496	0	0.39800E-05	487542.1	3765658.1	570.9	0.00	1.70	0.85	YES	
L0001497	0	0.39800E-05	487545.3	3765656.3	571.1	0.00	1.70	0.85	YES	

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L0001498          0    0.39800E-05   487548.5 3765654.6   571.2    0.00    1.70    0.85    YES
L0001499          0    0.39800E-05   487551.7 3765652.8   571.5    0.00    1.70    0.85    YES
L0001500          0    0.39800E-05   487554.9 3765651.0   571.8    0.00    1.70    0.85    YES
L0001501          0    0.39800E-05   487558.1 3765649.3   572.1    0.00    1.70    0.85    YES
L0001502          0    0.39800E-05   487561.3 3765647.5   572.4    0.00    1.70    0.85    YES
L0001503          0    0.39800E-05   487564.5 3765645.7   572.7    0.00    1.70    0.85    YES
L0001504          0    0.39800E-05   487567.7 3765644.0   572.9    0.00    1.70    0.85    YES
L0001505          0    0.39800E-05   487570.9 3765642.2   573.0    0.00    1.70    0.85    YES
L0001506          0    0.39800E-05   487574.1 3765640.4   573.2    0.00    1.70    0.85    YES
L0001507          0    0.39800E-05   487577.3 3765638.7   573.4    0.00    1.70    0.85    YES
L0001508          0    0.39800E-05   487580.6 3765637.1   573.6    0.00    1.70    0.85    YES
L0001509          0    0.39800E-05   487583.9 3765635.4   573.7    0.00    1.70    0.85    YES
L0001510          0    0.39800E-05   487587.1 3765633.8   573.7    0.00    1.70    0.85    YES
L0001511          0    0.39800E-05   487590.4 3765632.2   573.7    0.00    1.70    0.85    YES
L0001512          0    0.39800E-05   487593.7 3765630.5   573.6    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                          ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                   ***      20:03:29
                                                                                                             PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

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

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L0001513          0    0.39800E-05   487596.9 3765628.9   573.5    0.00    1.70    0.85    YES
L0001514          0    0.39800E-05   487600.2 3765627.2   573.6    0.00    1.70    0.85    YES
L0001515          0    0.39800E-05   487603.5 3765625.6   573.9    0.00    1.70    0.85    YES
L0001516          0    0.39800E-05   487606.8 3765624.0   574.1    0.00    1.70    0.85    YES
L0001517          0    0.39800E-05   487610.0 3765622.3   574.4    0.00    1.70    0.85    YES
L0001518          0    0.39800E-05   487613.3 3765620.7   574.7    0.00    1.70    0.85    YES
L0001519          0    0.39800E-05   487616.6 3765619.1   574.9    0.00    1.70    0.85    YES
L0001520          0    0.39800E-05   487619.8 3765617.4   575.2    0.00    1.70    0.85    YES
L0001521          0    0.39800E-05   487623.1 3765615.8   575.4    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                          ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                   ***      20:03:29
                                                                                                             PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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

                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs
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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                                    ***       08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                             ***       20:03:29
                                                                                                                        PAGE  20
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***


SRCGROUP ID                                         SOURCE IDs
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                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs

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

 URBAN ID   URBAN POP   SOURCE IDs
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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    , L0001055    , L0001056    ,

L0001057    , L0001058    , L0001059    , L0001060    , L0001061    , L0001062    , L0001063    , L0001064    ,

L0001065    , L0001066    , L0001067    , L0001068    , L0001069    , L0001070    , L0001071    , L0001072    ,
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

```
        L0001073    , L0001074    , L0001075    , L0001076    , L0001077    , L0001078    , L0001079    , L0001080    ,

        L0001081    , L0001082    , L0001083    , L0001084    , L0001085    , L0001086    , L0001087    , L0001088    ,

        L0001089    , L0001090    , L0001091    , L0001092    , L0001093    , L0001094    , L0001095    , L0001096    ,

        L0001097    , L0001098    , L0001099    , L0001100    , L0001101    , L0001102    , L0001103    , L0001104    ,

        L0001105    , L0001106    , L0001107    , L0001108    , L0001109    , L0001110    , L0001111    , L0001112    ,

        L0001113    , L0001114    , L0001115    , L0001116    , L0001117    , L0001118    , L0001119    , L0001120    ,

        L0001121    , L0001122    , L0001123    , L0001124    , L0001125    , L0001126    , L0001127    , L0001128    ,

        L0001129    , L0001130    , L0001131    , L0001132    , L0001133    , L0001134    , L0001135    , L0001136    ,

        L0001137    , L0001138    , L0001139    , L0001140    , L0001141    , L0001142    , L0001143    , L0001144    ,

        L0001145    , L0001146    , L0001147    , L0001148    , L0001149    , L0001150    , L0001151    , L0001152    ,

        L0001153    , L0001154    , L0001155    , L0001156    , L0001157    , L0001158    , L0001159    , L0001160    ,

        L0001161    , L0001162    , L0001163    , L0001164    , L0001165    , L0001166    , L0001167    , L0001168    ,

        L0001169    , L0001170    , L0001171    , L0001172    , L0001173    , L0001174    , L0001175    , L0001176    ,

        L0001177    , L0001178    , L0001179    , L0001180    , L0001181    , L0001182    , L0001183    , L0001184    ,

        L0001185    , L0001186    , L0001187    , L0001188    , L0001189    , L0001190    , L0001191    , L0001192    ,

        L0001193    , L0001194    , L0001195    , L0001196    , L0001197    , L0001198    , L0001199    , L0001200    ,

        L0001201    , L0001202    , L0001203    , L0001204    , L0001205    , L0001206    , L0001207    , L0001208    ,

        L0001209    , L0001210    , L0001211    , L0001212    , L0001213    , L0001214    , L0001215    , L0001216    ,

        L0001217    , L0001218    , L0001219    , L0001220    , L0001221    , L0001222    , L0001223    , L0001224    ,

        L0001225    , L0001226    , L0001227    , L0001228    , L0001229    , L0001230    , L0001231    , L0001232    ,
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*** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

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

 URBAN ID   URBAN POP   SOURCE IDs
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```
      L0001233    , L0001234    , L0001235    , L0001236    , L0001237    , L0001238    , L0001239    , L0001240    ,

      L0001241    , L0001242    , L0001243    , L0001244    , L0001245    , L0001246    , L0001247    , L0001248    ,

      L0001249    , L0001250    , L0001251    , L0001252    , L0001253    , L0001254    , L0001255    , L0001256    ,

      L0001257    , L0001258    , L0001259    , L0001260    , L0001261    , L0001262    , L0001263    , L0001264    ,

      L0001265    , L0001266    , L0001267    , L0001268    , L0001269    , L0001270    , L0001271    , L0001272    ,

      L0001273    , L0001274    , L0001275    , L0001276    , L0001277    , L0001278    , L0001279    , L0001280    ,

      L0001281    , L0001282    , L0001283    , L0001284    , L0001285    , L0001286    , L0001287    , L0001288    ,

      L0001289    , L0001290    , L0001291    , L0001292    , L0001293    , L0001294    , L0001295    , L0001296    ,

      L0001297    , L0001298    , L0001299    , L0001300    , L0001301    , L0001302    , L0001303    , L0001304    ,

      L0001305    , L0001306    , L0001307    , L0001308    , L0001309    , L0001310    , L0001311    , L0001312    ,

      L0001313    , L0001314    , L0001315    , L0001316    , L0001317    , L0001318    , L0001319    , L0001320    ,

      L0001321    , L0001322    , L0001323    , L0001324    , L0001325    , L0001326    , L0001327    , L0001328    ,

      L0001329    , L0001330    , L0001331    , L0001332    , L0001333    , L0001334    , L0001335    , L0001336    ,

      L0001337    , L0001338    , L0001339    , L0001340    , L0001341    , L0001342    , L0001343    , L0001344    ,

      L0001345    , L0001346    , L0001347    , L0001348    , L0001349    , L0001350    , L0001351    , L0001352    ,

      L0001353    , L0001354    , L0001355    , L0001356    , L0001357    , L0001358    , L0001359    , L0001360    ,

      L0001361    , L0001362    , L0001363    , L0001364    , L0001365    , L0001366    , L0001367    , L0001368    ,

      L0001369    , L0001370    , L0001371    , L0001372    , L0001373    , L0001374    , L0001375    , L0001376    ,

      L0001377    , L0001378    , L0001379    , L0001380    , L0001381    , L0001382    , L0001383    , L0001384    ,

      L0001385    , L0001386    , L0001387    , L0001388    , L0001389    , L0001390    , L0001391    , L0001392    ,
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                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***


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

```
     L0001393    , L0001394    , L0001395    , L0001396    , L0001397    , L0001398    , L0001399    , L0001400    ,

     L0001401    , L0001402    , L0001403    , L0001404    , L0001405    , L0001406    , L0001407    , L0001408    ,

     L0001409    , L0001410    , L0001411    , L0001412    , L0001413    , L0001414    , L0001415    , L0001416    ,

     L0001417    , L0001418    , L0001419    , L0001420    , L0001421    , L0001422    , L0001423    , L0001424    ,

     L0001425    , L0001426    , L0001427    , L0001428    , L0001429    , L0001430    , L0001431    , L0001432    ,

     L0001433    , L0001434    , L0001435    , L0001436    , L0001437    , L0001438    , L0001439    , L0001440    ,

     L0001441    , L0001442    , L0001443    , L0001444    , L0001445    , L0001446    , L0001447    , L0001448    ,

     L0001449    , L0001450    , L0001451    , L0001452    , L0001453    , L0001454    , L0001455    , L0001456    ,

     L0001457    , L0001458    , L0001459    , L0001460    , L0001461    , L0001462    , L0001463    , L0001464    ,

     L0001465    , L0001466    , L0001467    , L0001468    , L0001469    , L0001470    , L0001471    , L0001472    ,

     L0001473    , L0001474    , L0001475    , L0001476    , L0001477    , L0001478    , L0001479    , L0001480    ,

     L0001481    , L0001482    , L0001483    , L0001484    , L0001485    , L0001486    , L0001487    , L0001488    ,

     L0001489    , L0001490    , L0001491    , L0001492    , L0001493    , L0001494    , L0001495    , L0001496    ,

     L0001497    , L0001498    , L0001499    , L0001500    , L0001501    , L0001502    , L0001503    , L0001504    ,

     L0001505    , L0001506    , L0001507    , L0001508    , L0001509    , L0001510    , L0001511    , L0001512    ,

     L0001513    , L0001514    , L0001515    , L0001516    , L0001517    , L0001518    , L0001519    , L0001520    ,

     L0001521    ,
```

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                        ***        20:03:29
                                                                                                                    PAGE  26
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                           *** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

   486627.2,  486677.2,  486727.2,  486777.2,  486827.2,  486877.2,  486927.2,  486977.2,  487027.2,  487077.2,
   487127.2,  487177.2,  487227.2,  487277.2,  487327.2,  487377.2,  487427.2,  487477.2,  487527.2,  487577.2,
   487627.2,
```

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

    3765628.5, 3765678.5, 3765728.5, 3765778.5, 3765828.5, 3765878.5, 3765928.5, 3765978.5, 3766028.5, 3766078.5,
    3766128.5, 3766178.5, 3766228.5, 3766278.5, 3766328.5, 3766378.5, 3766428.5, 3766478.5, 3766528.5, 3766578.5,
    3766628.5,
```

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2026-2027   ***   20:03:29
                                                                                                           PAGE 27
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

                            * ELEVATION HEIGHTS IN METERS *

     Y-COORD | X-COORD (METERS)
     (METERS) | 486627.18   486677.18   486727.18   486777.18   486827.18   486877.18   486927.18   486977.18   487027.18
    -

     3766628.46 | 544.20   545.30   544.90   547.20   550.40   554.20   558.10   558.20   556.00
     3766578.46 | 548.60   552.30   553.20   550.10   551.10   556.50   559.20   561.60   564.60
     3766528.46 | 551.20   554.10   555.80   556.00   554.60   555.90   558.90   561.50   565.40
     3766478.46 | 550.00   553.70   554.60   556.80   559.50   561.20   561.40   563.40   564.50
     3766428.46 | 549.50   550.50   551.80   552.00   554.70   560.20   564.40   563.80   558.40
     3766378.46 | 548.90   550.20   548.70   546.10   549.70   552.50   554.80   554.10   554.10
     3766328.46 | 544.90   548.20   546.60   543.30   544.40   546.10   547.80   551.20   555.30
     3766278.46 | 542.10   543.90   543.30   541.90   541.60   545.30   552.20   559.30   563.90
     3766228.46 | 538.30   539.20   540.10   539.50   543.20   548.20   554.10   560.70   569.10
     3766178.46 | 529.40   533.30   536.00   539.10   544.60   553.20   563.20   566.40   564.40
     3766128.46 | 527.10   530.90   533.50   541.80   554.20   564.90   567.50   560.40   562.80
     3766078.46 | 527.50   529.40   531.80   542.90   552.80   554.70   555.40   552.50   553.40
     3766028.46 | 530.00   531.30   532.30   534.90   540.10   543.10   546.30   547.40   550.50
     3765978.46 | 532.50   531.30   533.30   535.70   537.60   539.20   541.10   543.60   547.20
     3765928.46 | 548.90   538.10   534.90   535.70   537.80   540.00   542.10   543.80   545.10
     3765878.46 | 567.50   554.20   542.70   539.70   540.60   542.50   543.50   546.10   548.70
     3765828.46 | 573.70   561.60   549.80   553.60   558.90   551.90   555.90   560.80   572.20
     3765778.46 | 575.00   574.30   566.80   568.70   575.50   567.00   563.50   575.00   581.50
     3765728.46 | 574.40   576.50   577.70   580.90   585.60   582.20   578.20   583.70   592.00
     3765678.46 | 581.00   578.80   579.80   583.50   587.90   590.50   592.20   594.60   598.70
     3765628.46 | 589.60   588.90   582.20   586.30   591.10   593.20   594.80   596.80   601.00
```

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                      ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027              ***        20:03:29
                                                                                                           PAGE  28
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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


                            * ELEVATION HEIGHTS IN METERS *

```
   Y-COORD |                                                      X-COORD (METERS)
  (METERS) |    487077.18    487127.18    487177.18    487227.18    487277.18    487327.18    487377.18    487427.18    487477.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3766628.46 |       554.80       556.50       560.60       564.70       566.90       568.10       569.60       572.00       574.30
 3766578.46 |       564.30       560.70       560.30       564.00       568.50       571.20       572.40       574.30       576.70
 3766528.46 |       568.30       568.90       567.10       565.00       566.80       572.00       574.10       576.40       579.30
 3766478.46 |       564.10       568.30       570.70       570.80       568.10       570.90       574.60       577.70       582.00
 3766428.46 |       557.60       561.10       565.40       571.50       573.20       575.60       578.20       581.30       590.40
 3766378.46 |       560.70       563.00       569.20       576.20       580.20       585.80       591.00       592.80       592.90
 3766328.46 |       562.50       569.60       572.90       582.10       590.20       594.50       592.50       596.20       599.70
 3766278.46 |       566.00       574.20       585.00       589.60       595.40       589.20       584.10       589.70       591.00
 3766228.46 |       573.80       578.10       588.60       582.90       585.00       581.70       577.70       581.80       582.80
 3766178.46 |       572.80       579.70       582.40       577.30       577.30       574.20       573.10       577.10       583.60
 3766128.46 |       570.90       571.10       576.80       571.80       569.40       569.10       571.50       578.60       588.50
 3766078.46 |       557.60       562.50       570.70       565.30       565.60       567.90       571.00       574.80       581.40
 3766028.46 |       553.70       556.90       561.10       559.60       561.60       568.60       580.20       581.30       579.80
 3765978.46 |       550.10       554.90       558.40       557.30       563.80       572.30       580.80       593.60       598.00
 3765928.46 |       547.20       550.50       556.40       557.40       570.10       584.80       590.90       598.40       611.40
 3765878.46 |       548.90       550.20       555.20       554.80       562.60       576.90       580.70       594.40       605.10
 3765828.46 |       570.60       560.70       555.30       554.90       557.90       563.90       574.50       586.80       602.20
 3765778.46 |       590.70       580.80       565.10       558.80       557.90       560.10       566.60       580.40       601.40
 3765728.46 |       594.90       582.90       569.60       562.80       559.40       560.00       562.60       566.50       576.00
 3765678.46 |       600.80       595.30       579.00       569.40       567.30       562.00       561.90       564.80       567.50
 3765628.46 |       602.80       597.50       580.20       575.40       577.30       575.80       564.50       564.20       566.00
```

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2026-2027   ***   20:03:29
                                                                                                                            PAGE 29
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

                                    * ELEVATION HEIGHTS IN METERS *

```
   Y-COORD |                                           X-COORD (METERS)
  (METERS) |    487527.18    487577.18    487627.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3766628.46 |       575.90       577.20       579.40
 3766578.46 |       578.80       580.50       582.70
 3766528.46 |       581.80       583.90       586.90
 3766478.46 |       585.50       588.20       593.90
 3766428.46 |       596.40       591.70       600.40
 3766378.46 |       600.80       599.00       598.00
 3766328.46 |       598.80       603.10       602.00
 3766278.46 |       593.70       594.50       605.50
 3766228.46 |       586.00       589.60       596.50
 3766178.46 |       591.20       596.00       594.60
 3766128.46 |       598.70       603.50       608.30
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3766078.46 |           588.40        595.50        609.30
3766028.46 |           583.20        595.20        603.70
3765978.46 |           589.20        589.40        595.70
3765928.46 |           604.20        602.40        595.90
3765878.46 |           617.00        620.70        615.80
3765828.46 |           618.90        616.80        626.10
3765778.46 |           601.20        607.60        633.60
3765728.46 |           586.20        611.70        619.10
3765678.46 |           572.80        586.30        596.40
3765628.46 |           569.10        572.30        576.40
```

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 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***        08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                 ***        20:03:29
                                                                                                              PAGE  30
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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


                                  * HILL HEIGHT SCALES IN METERS *


   Y-COORD  |                                        X-COORD (METERS)
   (METERS) |    486627.18    486677.18    486727.18    486777.18    486827.18    486877.18    486927.18    486977.18    487027.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3766628.46 |       555.40        555.70        556.30        555.20        550.40        554.20        558.10        564.30        569.00
3766578.46 |       548.60        552.30        555.70        559.60        559.90        556.50        559.20        561.60        564.60
3766528.46 |       551.20        554.10        555.80        556.00        563.50        563.70        558.90        561.50        565.40
3766478.46 |       550.00        553.70        554.60        556.80        559.50        563.50        561.40        563.40        596.40
3766428.46 |       549.50        550.50        551.80        563.50        563.80        563.80        565.40        563.80        596.40
3766378.46 |       548.90        550.20        551.50        590.00        595.20        596.40        596.40        596.40        600.20
3766328.46 |       544.90        551.70        551.70        596.40        596.40        596.40        596.40        599.90        600.20
3766278.46 |       542.10        551.70        590.00        596.40        596.40        637.60        596.40        596.40        596.40
3766228.46 |       566.60        589.10        595.20        652.40        652.40        596.40        596.40        596.40        595.20
3766178.46 |       652.40        652.40        652.40        652.40        652.40        595.20        589.10        590.00        596.40
3766128.46 |       655.00        655.00        655.00        652.40        569.30        566.60        567.50        637.60        652.40
3766078.46 |       655.00        667.30        671.50        654.70        652.40        652.40        652.40        667.30        671.50
3766028.46 |       655.00        668.60        671.50        671.50        671.50        671.50        671.50        671.50        671.50
3765978.46 |       655.00        671.50        671.50        671.50        671.50        671.50        671.50        671.50        671.50
3765928.46 |       652.40        655.00        671.50        671.50        671.50        671.50        671.50        671.50        671.50
3765878.46 |       574.70        652.40        671.50        671.50        671.50        671.50        671.50        671.50        671.50
3765828.46 |       573.70        606.20        655.00        655.00        655.00        671.50        671.50        671.50        667.30
3765778.46 |       588.60        589.70        610.60        652.40        607.90        655.00        671.50        655.00        655.00
3765728.46 |       594.40        593.10        588.70        588.00        587.10        609.80        655.00        654.70        652.40
3765678.46 |       591.40        595.00        595.00        591.40        587.90        590.50        592.20        594.60        598.70
3765628.46 |       589.60        588.90        597.00        592.50        591.10        593.20        594.80        607.90        602.20
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 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***        08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                 ***        20:03:29
                                                                                                              PAGE  31
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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

                                    * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                     X-COORD (METERS)
    (METERS) |    487077.18   487127.18   487177.18   487227.18   487277.18   487327.18   487377.18   487427.18   487477.18
   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |     596.40      596.40      596.40      564.70      566.90      601.00      609.90      616.50      616.70
   3766578.46 |     568.00      596.40      600.80      601.00      601.00      601.90      609.90      616.50      616.70
   3766528.46 |     568.30      568.90      596.40      601.90      604.20      604.20      609.90      616.50      616.70
   3766478.46 |     596.40      596.40      596.40      600.20      605.20      609.90      614.50      616.50      616.50
   3766428.46 |     600.20      600.80      601.00      600.80      601.90      604.20      606.80      609.90      604.20
   3766378.46 |     599.90      600.80      600.20      599.90      599.90      599.90      599.90      600.20      604.20
   3766328.46 |     599.90      596.40      596.40      596.40      596.40      594.50      599.90      599.90      599.70
   3766278.46 |     596.40      596.40      595.20      595.20      595.40      596.40      600.80      600.80      608.90
   3766228.46 |     595.20      596.00      588.60      596.40      596.40      637.60      650.80      650.80      660.00
   3766178.46 |     595.20      590.00      590.00      637.60      637.60      660.00      660.00      660.00      660.00
   3766128.46 |     590.00      637.60      637.60      650.80      660.00      668.60      668.60      660.00      660.00
   3766078.46 |     668.60      667.30      652.40      671.50      671.50      671.50      671.50      671.50      667.30
   3766028.46 |     671.50      671.50      671.50      671.50      671.50      671.50      668.60      668.60      671.50
   3765978.46 |     671.50      671.50      671.50      671.50      671.50      671.50      671.50      660.00      660.00
   3765928.46 |     671.50      671.50      671.50      671.50      671.50      668.60      660.00      650.80      637.60
   3765878.46 |     671.50      671.50      671.50      671.50      671.50      671.50      671.50      668.60      650.80
   3765828.46 |     671.50      671.50      671.50      671.50      671.50      671.50      671.50      671.50      668.60
   3765778.46 |     652.40      671.50      671.50      671.50      671.50      671.50      671.50      671.50      671.50
   3765728.46 |     652.40      671.50      671.50      671.50      671.50      671.50      671.50      671.50      671.50
   3765678.46 |     652.40      655.00      671.50      671.50      671.50      671.50      671.50      671.50      671.50
   3765628.46 |     652.40      655.00      671.50      671.50      671.50      671.50      671.50      671.50      671.50

 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                          ***        08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                   ***        20:03:29
                                                                                                                 PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

                                    * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                     X-COORD (METERS)
    (METERS) |    487527.18   487577.18   487627.18
   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |     617.40      618.70      618.70
   3766578.46 |     617.40      618.70      619.50
   3766528.46 |     617.40      618.70      618.70
   3766478.46 |     617.40      617.40      617.40
   3766428.46 |     600.30      617.40      611.50
   3766378.46 |     600.80      604.20      617.40
   3766328.46 |     604.20      604.20      613.90
   3766278.46 |     627.70      632.70      608.90
```

```
3766228.46 |        660.00       660.00       635.40
3766178.46 |        650.80       649.20       660.00
3766128.46 |        637.60       632.70       632.70
3766078.46 |        660.00       660.00       632.70
3766028.46 |        671.50       660.00       660.00
3765978.46 |        669.60       671.50       667.30
3765928.46 |        660.00       660.00       671.50
3765878.46 |        637.60       637.60       660.00
3765828.46 |        637.60       650.80       637.60
3765778.46 |        671.50       671.50       637.60
3765728.46 |        671.50       671.50       667.30
3765678.46 |        671.50       671.50       671.50
3765628.46 |        671.50       671.50       671.50
```

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2026-2027   ***   20:03:29
                                                                                                              PAGE 33
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

   (486910.9, 3766071.2,   552.6,   654.1,   0.0);   (487071.7, 3766032.3,   553.8,   671.5,   0.0);
   (487146.1, 3766030.0,   559.4,   671.5,   0.0);   (487280.7, 3766020.6,   561.9,   671.5,   0.0);
   (487485.2, 3766054.5,   580.3,   669.6,   0.0);   (487507.5, 3765926.8,   608.6,   650.8,   0.0);
   (487080.8, 3766103.6,   563.8,   652.4,   0.0);   (486821.5, 3766197.7,   542.8,   652.4,   0.0);

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2026-2027   ***   20:03:29
                                                                                                              PAGE 34
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

                        SOURCE   - - RECEPTOR LOCATION - -   DISTANCE
                          ID   XR (METERS)   YR (METERS)   (METERS)
                        -

                       L0001075   487177.2   3765878.5   0.17
                       L0001105   487277.2   3765828.5   -0.82
                       L0001106   487277.2   3765828.5   -2.57
                       L0001107   487277.2   3765828.5   0.93
                       L0001136   487377.2   3765778.5   0.96
                       L0001237   486677.2   3766028.5   0.95
                       L0001238   486677.2   3766028.5   -0.76
                       L0001281   486827.2   3765978.5   0.35
                       L0001324   486977.2   3765928.5   -0.43
                       L0001325   486977.2   3765928.5   -0.21
```

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                   L0001397              487227.2    3765828.5              0.43
                   L0001398              487227.2    3765828.5             -2.73
                   L0001399              487227.2    3765828.5             -0.22
                   L0001428              487327.2    3765778.5              0.42
                   L0001429              487327.2    3765778.5             -0.02
```

*** 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 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\RDLD_V9_ADJU\RDLD_v9.SFC   Met Version: 16216
   Profile file: E:\New MET data\RDLD_V9_ADJU\RDLD_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:   3171   Upper air station no.:   3190
            Name: UNKNOWN   Name: UNKNOWN
            Year: 2012   Year: 2012

 First 24 hours of scalar data
 YR MO DY JDY HR   H0   U*   W*   DT/DZ ZICNV ZIMCH M-O LEN   Z0 BOWEN ALBEDO REF WS   WD   HT REF TA   HT
 -
 12 01 01   1 01 -10.6 0.149 -9.000 -9.000 -999. 138.   26.7 0.32   3.22   1.00   1.30 110.   9.1 285.4   5.5
```

```
12 01 01   1 02   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32  3.22  1.00    0.90  130.    9.1  284.5    5.5
12 01 01   1 03   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32  3.22  1.00    0.90  100.    9.1  285.0    5.5
12 01 01   1 04   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32  3.22  1.00    0.90  107.    9.1  284.6    5.5
12 01 01   1 05  -10.7  0.149 -9.000 -9.000 -999.  138.     26.7  0.32  3.22  1.00    1.30   98.    9.1  284.9    5.5
12 01 01   1 06   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32  3.22  1.00    0.90   86.    9.1  284.5    5.5
12 01 01   1 07   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32  3.22  1.00    0.90   91.    9.1  284.0    5.5
12 01 01   1 08   -4.0  0.102 -9.000 -9.000 -999.   78.     22.9  0.32  3.22  0.54    0.90  107.    9.1  285.0    5.5
12 01 01   1 09   44.6  0.237  0.382  0.006   43.  276.    -25.6  0.15  3.22  0.33    2.10   81.   10.1  289.1    5.5
12 01 01   1 10  134.3  0.111  0.882  0.008  176.   99.     -1.0  0.32  3.22  0.26    0.40   72.    9.1  295.1    5.5
12 01 01   1 11  199.8  0.409  1.429  0.005  503.  627.    -29.4  0.15  3.22  0.23    3.68   78.   10.1  297.9    5.5
12 01 01   1 12  232.3  0.300  1.889  0.005  999.  402.    -10.0  0.32  3.22  0.22    1.80  333.    9.1  299.4    5.5
12 01 01   1 13  230.0  0.300  2.134  0.005 1453.  394.    -10.1  0.32  3.22  0.22    1.80   72.    9.1  300.4    5.5
12 01 01   1 14  194.0  0.294  2.109  0.005 1663.  382.    -11.2  0.32  3.22  0.24    1.80  277.    9.1  301.0    5.5
12 01 01   1 15  126.3  0.378  1.872  0.005 1784.  557.    -36.5  0.32  3.22  0.27    2.70  243.    9.1  301.0    5.5
12 01 01   1 16   39.5  0.199  1.278  0.005 1817.  240.    -17.2  0.32  3.22  0.36    1.30  274.    9.1  300.1    5.5
12 01 01   1 17   -4.7  0.101 -9.000 -9.000 -999.   85.     19.0  0.32  3.22  0.65    0.90  252.    9.1  298.2    5.5
12 01 01   1 18   -4.9  0.102 -9.000 -9.000 -999.   78.     18.2  0.32  3.22  1.00    0.90  116.    9.1  296.4    5.5
12 01 01   1 19  -18.8  0.204 -9.000 -9.000 -999.  220.     45.6  0.15  3.22  1.00    2.27   79.   10.1  292.2    5.5
12 01 01   1 20   -5.0  0.102 -9.000 -9.000 -999.   83.     18.1  0.32  3.22  1.00    0.90   95.    9.1  290.2    5.5
12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32  3.22  1.00    0.90   99.    9.1  287.8    5.5
12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32  3.22  1.00    0.90  110.    9.1  287.6    5.5
12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32  3.22  1.00    1.30   89.    9.1  287.2    5.5
12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32  3.22  1.00    0.90  105.    9.1  285.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    5.5 0 -999.  -99.00   285.5  99.0  -99.00  -99.00
12 01 01 01    9.1 1  110.    1.30  -999.0  99.0  -99.00  -99.00


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

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***       08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                       ***       20:03:29
                                                                                                                   PAGE  37
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                            INCLUDING SOURCE(S):     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  , . . .       ,

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

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

   Y-COORD |                                        X-COORD (METERS)
   (METERS)|    486627.18    486677.18    486727.18    486777.18    486827.18    486877.18    486927.18    486977.18    487027.18
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

Y-COORD									
3766628.46	0.00494	0.00507	0.00524	0.00526	0.00519	0.00503	0.00483	0.00486	0.00502
3766578.46	0.00524	0.00520	0.00531	0.00568	0.00573	0.00542	0.00528	0.00513	0.00491
3766528.46	0.00564	0.00565	0.00571	0.00586	0.00613	0.00612	0.00592	0.00573	0.00540
3766478.46	0.00641	0.00638	0.00654	0.00652	0.00640	0.00634	0.00641	0.00624	0.00615
3766428.46	0.00731	0.00759	0.00778	0.00803	0.00789	0.00733	0.00689	0.00703	0.00772
3766378.46	0.00846	0.00880	0.00945	0.01015	0.00991	0.00966	0.00939	0.00952	0.00947
3766328.46	0.01050	0.01070	0.01158	0.01250	0.01260	0.01247	0.01222	0.01164	0.01085
3766278.46	0.01316	0.01394	0.01487	0.01558	0.01579	0.01527	0.01380	0.01204	0.01091
3766228.46	0.01731	0.01893	0.01983	0.02034	0.01973	0.01833	0.01635	0.01412	0.01168
3766178.46	0.02483	0.02776	0.02846	0.02779	0.02571	0.02136	0.01661	0.01532	0.01586
3766128.46	0.04290	0.04792	0.04597	0.04040	0.02858	0.02127	0.01964	0.02293	0.02108
3766078.46	0.38801	0.14667	0.10068	0.07140	0.04708	0.04168	0.03876	0.03964	0.03635
3766028.46	0.20290	0.41506	0.35374	0.43041	0.16467	0.11116	0.08472	0.07014	0.05838
3765978.46	0.05458	0.08356	0.12765	0.24735	0.48611	0.36158	0.42051	0.16800	0.11373
3765928.46	0.02574	0.04327	0.05686	0.07305	0.09700	0.13921	0.25542	0.42709	0.45433
3765878.46	0.01379	0.02166	0.03502	0.04351	0.05213	0.06279	0.07769	0.09994	0.14143
3765828.46	0.01049	0.01480	0.02333	0.02506	0.02549	0.03667	0.03974	0.04159	0.03769
3765778.46	0.00876	0.00997	0.01291	0.01411	0.01414	0.01913	0.02426	0.02141	0.02291
3765728.46	0.00777	0.00834	0.00910	0.00963	0.01010	0.01177	0.01410	0.01464	0.01551
3765678.46	0.00623	0.00710	0.00768	0.00794	0.00820	0.00874	0.00944	0.01020	0.01085
3765628.46	0.00490	0.00537	0.00655	0.00664	0.00670	0.00707	0.00754	0.00801	0.00824

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                    ***       08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027             ***       20:03:29
                                                                                                         PAGE  38
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                           INCLUDING SOURCE(S):    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   , . . .      ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	487077.18	487127.18	487177.18	487227.18	487277.18	487327.18	487377.18	487427.18	487477.18
3766628.46	0.00508	0.00495	0.00466	0.00435	0.00416	0.00402	0.00385	0.00363	0.00342
3766578.46	0.00494	0.00519	0.00517	0.00484	0.00446	0.00420	0.00403	0.00382	0.00357
3766528.46	0.00515	0.00508	0.00519	0.00529	0.00506	0.00456	0.00431	0.00404	0.00373
3766478.46	0.00618	0.00573	0.00544	0.00536	0.00552	0.00515	0.00472	0.00435	0.00389
3766428.46	0.00776	0.00728	0.00670	0.00593	0.00564	0.00528	0.00491	0.00450	0.00361
3766378.46	0.00847	0.00805	0.00712	0.00612	0.00554	0.00483	0.00421	0.00393	0.00380
3766328.46	0.00948	0.00820	0.00757	0.00617	0.00509	0.00454	0.00459	0.00411	0.00370
3766278.46	0.01037	0.00866	0.00682	0.00606	0.00526	0.00579	0.00626	0.00535	0.00500
3766228.46	0.01045	0.00940	0.00742	0.00814	0.00757	0.00787	0.00827	0.00729	0.00684
3766178.46	0.01293	0.01094	0.01008	0.01092	0.01058	0.01090	0.01067	0.00941	0.00782

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 3766128.46 |      0.01695     0.01641     0.01400     0.01513     0.01532     0.01467     0.01327     0.01089     0.00833
 3766078.46 |      0.03124     0.02641     0.02066     0.02229     0.02086     0.01875     0.01653     0.01436     0.01174
 3766028.46 |      0.04927     0.04198     0.03533     0.03317     0.02930     0.02379     0.01714     0.01561     0.01498
 3765978.46 |      0.08658     0.06785     0.05510     0.04846     0.03888     0.02916     0.02191     0.01536     0.01289
 3765928.46 |      0.28932     0.14561     0.09942     0.07662     0.04919     0.03014     0.02378     0.01859     0.01396
 3765878.46 |      0.26790     0.60491     0.50143     0.17142     0.10301     0.05443     0.04209     0.02712     0.01993
 3765828.46 |      0.04905     0.09419     0.18575     0.37314     0.37132     0.16340     0.08281     0.04685     0.02892
 3765778.46 |      0.02643     0.03326     0.06351     0.10244     0.17873     0.42950     0.44578     0.10753     0.04683
 3765728.46 |      0.01759     0.02257     0.03770     0.05530     0.07443     0.10780     0.22022     0.37446     0.34545
 3765678.46 |      0.01189     0.01452     0.02214     0.03428     0.04381     0.05765     0.07553     0.11239     0.25030
 3765628.46 |      0.00885     0.01074     0.01736     0.02279     0.02562     0.03217     0.04548     0.05565     0.07227
```

```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                             INCLUDING SOURCE(S):    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   , . . .       ,

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

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

    Y-COORD  |                                              X-COORD (METERS)
   (METERS)  |    487527.18   487577.18   487627.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3766628.46 |      0.00324     0.00309     0.00289
  3766578.46 |      0.00335     0.00316     0.00294
  3766528.46 |      0.00346     0.00322     0.00294
  3766478.46 |      0.00352     0.00322     0.00276
  3766428.46 |      0.00308     0.00328     0.00265
  3766378.46 |      0.00313     0.00312     0.00305
  3766328.46 |      0.00362     0.00320     0.00313
  3766278.46 |      0.00452     0.00425     0.00329
  3766228.46 |      0.00610     0.00535     0.00438
  3766178.46 |      0.00629     0.00537     0.00522
  3766128.46 |      0.00635     0.00547     0.00476
  3766078.46 |      0.00943     0.00755     0.00556
  3766028.46 |      0.01287     0.00915     0.00722
  3765978.46 |      0.01399     0.01266     0.01003
  3765928.46 |      0.01341     0.01222     0.01218
  3765878.46 |      0.01524     0.01275     0.01148
  3765828.46 |      0.02036     0.01707     0.01347
  3765778.46 |      0.03514     0.02536     0.01706
  3765728.46 |      0.09654     0.03873     0.02578
  3765678.46 |      0.35239     0.20409     0.05743
```

```
   3765628.46 |      0.10838     0.28309     0.25128
```

```
*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                            ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                    ***      20:03:29
                                                                                                              PAGE  40
  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                                    INCLUDING SOURCE(S):     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   , . . .      ,

                                          *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      486910.88    3766071.19      0.04598                   487071.68    3766032.30      0.04820
      487146.10    3766029.99      0.03816                   487280.73    3766020.65      0.03032
      487485.24    3766054.47      0.01309                   487507.54    3765926.79      0.01344
      487080.82    3766103.59      0.02290                   486821.49    3766197.66      0.02349
```

```
*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                            ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027                    ***      20:03:29
                                                                                                              PAGE  41
  *** 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      0.60491 AT (  487127.18,  3765878.46,   550.20,    671.50,    0.00)  GC   UCART1
          2ND HIGHEST VALUE IS      0.50143 AT (  487177.18,  3765878.46,   555.20,    671.50,    0.00)  GC   UCART1
          3RD HIGHEST VALUE IS      0.48611 AT (  486827.18,  3765978.46,   537.60,    671.50,    0.00)  GC   UCART1
          4TH HIGHEST VALUE IS      0.45433 AT (  487027.18,  3765928.46,   545.10,    671.50,    0.00)  GC   UCART1
          5TH HIGHEST VALUE IS      0.44578 AT (  487377.18,  3765778.46,   566.60,    671.50,    0.00)  GC   UCART1
          6TH HIGHEST VALUE IS      0.43041 AT (  486777.18,  3766028.46,   534.90,    671.50,    0.00)  GC   UCART1
          7TH HIGHEST VALUE IS      0.42950 AT (  487327.18,  3765778.46,   560.10,    671.50,    0.00)  GC   UCART1
          8TH HIGHEST VALUE IS      0.42709 AT (  486977.18,  3765928.46,   543.80,    671.50,    0.00)  GC   UCART1
          9TH HIGHEST VALUE IS      0.42051 AT (  486927.18,  3765978.46,   541.10,    671.50,    0.00)  GC   UCART1
         10TH HIGHEST VALUE IS      0.41506 AT (  486677.18,  3766028.46,   531.30,    668.60,    0.00)  GC   UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
```

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                        GP = GRIDPOLR
                        DC = DISCCART
                        DP = DISCPOLR

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                              ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2026-2027       ***        20:03:29
                                                                                                    PAGE  42
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of        388 Informational Message(s)


A Total of      43848 Hours Were Processed


A Total of        191 Calm Hours Identified


A Total of        197 Missing Hours Identified (  0.45 Percent)



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



    ********   WARNING MESSAGES   ********
ME W186    1339      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
ME W187    1339      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

```
** Lakes Environmental AERMOD MPI
**
***************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/11/2021
** File: C:\Lakes\AERMOD View\Terracina at Redlands 2028-2041\Terracina at Redlands 2028-2041.ADI
**
***************************************
**
**
***************************************
** AERMOD Control Pathway
***************************************
**
**
CO STARTING
   TITLEONE Terracina at Redlands
   TITLETWO Freeway-related DPM Concentrations 2028-2041
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "Terracina at Redlands 2028-2041.err"
CO FINISHED
**
***************************************
** AERMOD Source Pathway
***************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC EB 10 freeway
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00111
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 12
** 486616.041, 3766076.797, 526.82, 0.00, 1.70
** 486786.952, 3766018.704, 535.73, 0.00, 1.70
```

Apx - 196

```
**  486896.402, 3765982.502, 539.74, 0.00, 1.70
**  487020.166, 3765938.721, 544.37, 0.00, 1.70
**  487127.090, 3765896.625, 550.05, 0.00, 1.70
**  487255.905, 3765839.374, 556.47, 0.00, 1.70
**  487365.355, 3765779.597, 565.73, 0.00, 1.70
**  487442.813, 3765739.185, 575.21, 0.00, 1.70
**  487518.586, 3765698.772, 574.32, 0.00, 1.70
**  487573.311, 3765669.305, 575.18, 0.00, 1.70
**  487609.514, 3765647.415, 578.30, 0.00, 1.70
**  487635.614, 3765634.786, 578.12, 0.00, 1.70
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   LOCATION L0001534    VOLUME    486659.329 3766062.084 528.80
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   LOCATION L0001541    VOLUME    486683.570 3766053.844 530.11
   LOCATION L0001542    VOLUME    486687.033 3766052.667 530.30
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   LOCATION L0001545    VOLUME    486697.422 3766049.136 530.83
   LOCATION L0001546    VOLUME    486700.885 3766047.959 530.99
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   LOCATION L0001561    VOLUME    486752.830 3766030.302 533.23
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LOCATION  L0001593     VOLUME    486863.858 3765993.266 538.18
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LOCATION L0001633    VOLUME    487002.015 3765945.142 544.15
LOCATION L0001634    VOLUME    487005.463 3765943.922 544.23
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LOCATION L0001637    VOLUME    487015.808 3765940.263 544.42
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LOCATION L0001649    VOLUME    487056.705 3765924.336 546.39
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LOCATION L0001651    VOLUME    487063.511 3765921.656 546.72
LOCATION L0001652    VOLUME    487066.915 3765920.316 546.89
LOCATION L0001653    VOLUME    487070.318 3765918.976 547.04
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LOCATION L0001658    VOLUME    487087.335 3765912.277 547.57
LOCATION L0001659    VOLUME    487090.738 3765910.937 547.63
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LOCATION L0001663    VOLUME    487104.352 3765905.577 547.90
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LOCATION L0001669     VOLUME     487124.772 3765897.538 549.03
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LOCATION L0001671     VOLUME     487131.498 3765894.666 549.47
LOCATION L0001672     VOLUME     487134.840 3765893.181 549.68
LOCATION L0001673     VOLUME     487138.183 3765891.695 549.88
LOCATION L0001674     VOLUME     487141.525 3765890.210 550.20
LOCATION L0001675     VOLUME     487144.867 3765888.724 550.76
LOCATION L0001676     VOLUME     487148.210 3765887.239 551.30
LOCATION L0001677     VOLUME     487151.552 3765885.753 551.81
LOCATION L0001678     VOLUME     487154.894 3765884.268 552.29
LOCATION L0001679     VOLUME     487158.237 3765882.782 552.76
LOCATION L0001680     VOLUME     487161.579 3765881.297 553.19
LOCATION L0001681     VOLUME     487164.921 3765879.811 553.61
LOCATION L0001682     VOLUME     487168.264 3765878.326 554.01
LOCATION L0001683     VOLUME     487171.606 3765876.840 554.42
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LOCATION L0001792     VOLUME     487526.049 3765694.754 575.69
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LOCATION L0001803     VOLUME     487561.473 3765675.679 580.07
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LOCATION L0001811     VOLUME     487586.845 3765661.122 578.94
LOCATION L0001812     VOLUME     487589.975 3765659.229 578.88
LOCATION L0001813     VOLUME     487593.105 3765657.337 579.30
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LOCATION L0001815     VOLUME     487599.365 3765653.551 579.90
LOCATION L0001816     VOLUME     487602.495 3765651.659 580.06
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC WB 10 freeway
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00111
** Elevated
** Vertical Dimension = 3.66
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SRCPARAM L0001985        0.000003651        0.00        1.70        0.85
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SRCPARAM L0001988        0.000003651        0.00        1.70        0.85
SRCPARAM L0001989        0.000003651        0.00        1.70        0.85
SRCPARAM L0001990        0.000003651        0.00        1.70        0.85
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SRCPARAM L0002030    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002035    0.000003651    0.00    1.70    0.85
SRCPARAM L0002036    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002039    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002041    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002045    0.000003651    0.00    1.70    0.85
SRCPARAM L0002046    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002053    0.000003651    0.00    1.70    0.85
SRCPARAM L0002054    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002072    0.000003651    0.00    1.70    0.85
SRCPARAM L0002073    0.000003651    0.00    1.70    0.85
SRCPARAM L0002074    0.000003651    0.00    1.70    0.85
SRCPARAM L0002075    0.000003651    0.00    1.70    0.85
SRCPARAM L0002076    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002078    0.000003651    0.00    1.70    0.85
SRCPARAM L0002079    0.000003651    0.00    1.70    0.85
SRCPARAM L0002080    0.000003651    0.00    1.70    0.85
SRCPARAM L0002081    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002083    0.000003651    0.00    1.70    0.85
SRCPARAM L0002084    0.000003651    0.00    1.70    0.85
SRCPARAM L0002085    0.000003651    0.00    1.70    0.85
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SRCPARAM L0002090    0.000003651    0.00    1.70    0.85
SRCPARAM L0002091    0.000003651    0.00    1.70    0.85
SRCPARAM L0002092    0.000003651    0.00    1.70    0.85
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   SRCPARAM L0002094      0.000003651      0.00      1.70      0.85
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   SRCPARAM L0002098      0.000003651      0.00      1.70      0.85
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   SRCPARAM L0002101      0.000003651      0.00      1.70      0.85
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   SRCPARAM L0002110      0.000003651      0.00      1.70      0.85
   SRCPARAM L0002111      0.000003651      0.00      1.70      0.85
   SRCPARAM L0002112      0.000003651      0.00      1.70      0.85
   SRCPARAM L0002113      0.000003651      0.00      1.70      0.85
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   SRCPARAM L0002120      0.000003651      0.00      1.70      0.85
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   SRCPARAM L0002129      0.000003651      0.00      1.70      0.85
   SRCPARAM L0002130      0.000003651      0.00      1.70      0.85
** ----------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "Terracina at Redlands 2028-2041.rou"
RE FINISHED
```

```
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
    SURFFILE "E:\New MET data\RDLD_V9_ADJU\RDLD_v9.SFC"
    PROFFILE "E:\New MET data\RDLD_V9_ADJU\RDLD_v9.PFL"
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    SITEDATA 99999 2012
    PROFBASE 481.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
    PLOTFILE PERIOD ALL "TERRACINA AT REDLANDS 2028-2041.AD\PE00GALL.PLT" 31
    SUMMFILE "Terracina at Redlands 2028-2041.sum"
OU FINISHED


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

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

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of          0 Informational Message(s)


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


    ********    WARNING MESSAGES    ********
 ME W186    1339       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    1339       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

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


 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***      08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                 ***      21:00:06
```

*** 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   609 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   2035210.0 ; 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: 609 Source(s);   1 Source Group(s); and   449 Receptor(s)

                with: 0 POINT(s), including
                           0 POINTCAP(s) and   0 POINTHOR(s)
                and: 609 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) =   481.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.8 MB of RAM.

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

**Detailed Error/Message File: Terracina at Redlands 2028-2041.err
**File for Summary of Results: Terracina at Redlands 2028-2041.sum

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2028-2041   ***   21:00:06
                                                                                                            PAGE   2
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

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

  L0001522   0   0.36390E-05 486617.8 3766076.2   527.3   0.00   1.70   0.85   YES
  L0001523   0   0.36390E-05 486621.2 3766075.0   527.5   0.00   1.70   0.85   YES
  L0001524   0   0.36390E-05 486624.7 3766073.9   527.6   0.00   1.70   0.85   YES
  L0001525   0   0.36390E-05 486628.2 3766072.7   527.7   0.00   1.70   0.85   YES
  L0001526   0   0.36390E-05 486631.6 3766071.5   527.9   0.00   1.70   0.85   YES
  L0001527   0   0.36390E-05 486635.1 3766070.3   528.0   0.00   1.70   0.85   YES
  L0001528   0   0.36390E-05 486638.6 3766069.1   528.1   0.00   1.70   0.85   YES
  L0001529   0   0.36390E-05 486642.0 3766068.0   528.3   0.00   1.70   0.85   YES
  L0001530   0   0.36390E-05 486645.5 3766066.8   528.4   0.00   1.70   0.85   YES
  L0001531   0   0.36390E-05 486648.9 3766065.6   528.5   0.00   1.70   0.85   YES
  L0001532   0   0.36390E-05 486652.4 3766064.4   528.5   0.00   1.70   0.85   YES
  L0001533   0   0.36390E-05 486655.9 3766063.3   528.7   0.00   1.70   0.85   YES
  L0001534   0   0.36390E-05 486659.3 3766062.1   528.8   0.00   1.70   0.85   YES
  L0001535   0   0.36390E-05 486662.8 3766060.9   529.0   0.00   1.70   0.85   YES
  L0001536   0   0.36390E-05 486666.3 3766059.7   529.2   0.00   1.70   0.85   YES
  L0001537   0   0.36390E-05 486669.7 3766058.6   529.4   0.00   1.70   0.85   YES

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L0001538          0    0.36390E-05    486673.2 3766057.4    529.5    0.00    1.70    0.85    YES
L0001539          0    0.36390E-05    486676.6 3766056.2    529.7    0.00    1.70    0.85    YES
L0001540          0    0.36390E-05    486680.1 3766055.0    529.9    0.00    1.70    0.85    YES
L0001541          0    0.36390E-05    486683.6 3766053.8    530.1    0.00    1.70    0.85    YES
L0001542          0    0.36390E-05    486687.0 3766052.7    530.3    0.00    1.70    0.85    YES
L0001543          0    0.36390E-05    486690.5 3766051.5    530.5    0.00    1.70    0.85    YES
L0001544          0    0.36390E-05    486694.0 3766050.3    530.7    0.00    1.70    0.85    YES
L0001545          0    0.36390E-05    486697.4 3766049.1    530.8    0.00    1.70    0.85    YES
L0001546          0    0.36390E-05    486700.9 3766048.0    531.0    0.00    1.70    0.85    YES
L0001547          0    0.36390E-05    486704.3 3766046.8    531.1    0.00    1.70    0.85    YES
L0001548          0    0.36390E-05    486707.8 3766045.6    531.3    0.00    1.70    0.85    YES
L0001549          0    0.36390E-05    486711.3 3766044.4    531.5    0.00    1.70    0.85    YES
L0001550          0    0.36390E-05    486714.7 3766043.2    531.7    0.00    1.70    0.85    YES
L0001551          0    0.36390E-05    486718.2 3766042.1    531.8    0.00    1.70    0.85    YES
L0001552          0    0.36390E-05    486721.7 3766040.9    532.0    0.00    1.70    0.85    YES
L0001553          0    0.36390E-05    486725.1 3766039.7    532.1    0.00    1.70    0.85    YES
L0001554          0    0.36390E-05    486728.6 3766038.5    532.2    0.00    1.70    0.85    YES
L0001555          0    0.36390E-05    486732.1 3766037.4    532.4    0.00    1.70    0.85    YES
L0001556          0    0.36390E-05    486735.5 3766036.2    532.6    0.00    1.70    0.85    YES
L0001557          0    0.36390E-05    486739.0 3766035.0    532.8    0.00    1.70    0.85    YES
L0001558          0    0.36390E-05    486742.4 3766033.8    533.0    0.00    1.70    0.85    YES
L0001559          0    0.36390E-05    486745.9 3766032.7    533.1    0.00    1.70    0.85    YES
L0001560          0    0.36390E-05    486749.4 3766031.5    533.2    0.00    1.70    0.85    YES
L0001561          0    0.36390E-05    486752.8 3766030.3    533.2    0.00    1.70    0.85    YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001562	0	0.36390E-05	486756.3	3766029.1	533.4	0.00	1.70	0.85	YES	
L0001563	0	0.36390E-05	486759.8	3766027.9	533.7	0.00	1.70	0.85	YES	
L0001564	0	0.36390E-05	486763.2	3766026.8	534.0	0.00	1.70	0.85	YES	
L0001565	0	0.36390E-05	486766.7	3766025.6	534.3	0.00	1.70	0.85	YES	
L0001566	0	0.36390E-05	486770.1	3766024.4	534.5	0.00	1.70	0.85	YES	
L0001567	0	0.36390E-05	486773.6	3766023.2	534.8	0.00	1.70	0.85	YES	
L0001568	0	0.36390E-05	486777.1	3766022.1	535.0	0.00	1.70	0.85	YES	
L0001569	0	0.36390E-05	486780.5	3766020.9	535.2	0.00	1.70	0.85	YES	
L0001570	0	0.36390E-05	486784.0	3766019.7	535.4	0.00	1.70	0.85	YES	
L0001571	0	0.36390E-05	486787.5	3766018.5	535.7	0.00	1.70	0.85	YES	
L0001572	0	0.36390E-05	486790.9	3766017.4	535.9	0.00	1.70	0.85	YES	
L0001573	0	0.36390E-05	486794.4	3766016.2	536.1	0.00	1.70	0.85	YES	
L0001574	0	0.36390E-05	486797.9	3766015.1	536.3	0.00	1.70	0.85	YES	

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L0001575        0    0.36390E-05  486801.4 3766013.9   536.5    0.00    1.70    0.85    YES
L0001576        0    0.36390E-05  486804.8 3766012.8   536.6    0.00    1.70    0.85    YES
L0001577        0    0.36390E-05  486808.3 3766011.6   536.7    0.00    1.70    0.85    YES
L0001578        0    0.36390E-05  486811.8 3766010.5   536.9    0.00    1.70    0.85    YES
L0001579        0    0.36390E-05  486815.2 3766009.3   537.0    0.00    1.70    0.85    YES
L0001580        0    0.36390E-05  486818.7 3766008.2   537.1    0.00    1.70    0.85    YES
L0001581        0    0.36390E-05  486822.2 3766007.0   537.1    0.00    1.70    0.85    YES
L0001582        0    0.36390E-05  486825.7 3766005.9   537.1    0.00    1.70    0.85    YES
L0001583        0    0.36390E-05  486829.1 3766004.8   537.1    0.00    1.70    0.85    YES
L0001584        0    0.36390E-05  486832.6 3766003.6   537.1    0.00    1.70    0.85    YES
L0001585        0    0.36390E-05  486836.1 3766002.5   537.1    0.00    1.70    0.85    YES
L0001586        0    0.36390E-05  486839.5 3766001.3   537.1    0.00    1.70    0.85    YES
L0001587        0    0.36390E-05  486843.0 3766000.2   537.0    0.00    1.70    0.85    YES
L0001588        0    0.36390E-05  486846.5 3765999.0   537.1    0.00    1.70    0.85    YES
L0001589        0    0.36390E-05  486850.0 3765997.9   537.3    0.00    1.70    0.85    YES
L0001590        0    0.36390E-05  486853.4 3765996.7   537.5    0.00    1.70    0.85    YES
L0001591        0    0.36390E-05  486856.9 3765995.6   537.7    0.00    1.70    0.85    YES
L0001592        0    0.36390E-05  486860.4 3765994.4   537.9    0.00    1.70    0.85    YES
L0001593        0    0.36390E-05  486863.9 3765993.3   538.2    0.00    1.70    0.85    YES
L0001594        0    0.36390E-05  486867.3 3765992.1   538.4    0.00    1.70    0.85    YES
L0001595        0    0.36390E-05  486870.8 3765991.0   538.6    0.00    1.70    0.85    YES
L0001596        0    0.36390E-05  486874.3 3765989.8   538.8    0.00    1.70    0.85    YES
L0001597        0    0.36390E-05  486877.7 3765988.7   539.0    0.00    1.70    0.85    YES
L0001598        0    0.36390E-05  486881.2 3765987.5   539.2    0.00    1.70    0.85    YES
L0001599        0    0.36390E-05  486884.7 3765986.4   539.4    0.00    1.70    0.85    YES
L0001600        0    0.36390E-05  486888.2 3765985.2   539.6    0.00    1.70    0.85    YES
L0001601        0    0.36390E-05  486891.6 3765984.1   539.7    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***       08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                 ***       21:00:06
                                                                                                             PAGE   4
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001602	0	0.36390E-05	486895.1	3765982.9	539.9	0.00	1.70	0.85	YES	
L0001603	0	0.36390E-05	486898.6	3765981.7	540.1	0.00	1.70	0.85	YES	
L0001604	0	0.36390E-05	486902.0	3765980.5	540.2	0.00	1.70	0.85	YES	
L0001605	0	0.36390E-05	486905.5	3765979.3	540.3	0.00	1.70	0.85	YES	
L0001606	0	0.36390E-05	486908.9	3765978.1	540.4	0.00	1.70	0.85	YES	
L0001607	0	0.36390E-05	486912.4	3765976.9	540.5	0.00	1.70	0.85	YES	
L0001608	0	0.36390E-05	486915.8	3765975.6	540.6	0.00	1.70	0.85	YES	
L0001609	0	0.36390E-05	486919.3	3765974.4	540.7	0.00	1.70	0.85	YES	
L0001610	0	0.36390E-05	486922.7	3765973.2	540.7	0.00	1.70	0.85	YES	
L0001611	0	0.36390E-05	486926.2	3765972.0	540.8	0.00	1.70	0.85	YES	

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L0001612           0   0.36390E-05   486929.6 3765970.8   540.8    0.00    1.70    0.85    YES
L0001613           0   0.36390E-05   486933.1 3765969.5   540.8    0.00    1.70    0.85    YES
L0001614           0   0.36390E-05   486936.5 3765968.3   540.9    0.00    1.70    0.85    YES
L0001615           0   0.36390E-05   486939.9 3765967.1   541.1    0.00    1.70    0.85    YES
L0001616           0   0.36390E-05   486943.4 3765965.9   541.3    0.00    1.70    0.85    YES
L0001617           0   0.36390E-05   486946.8 3765964.7   541.5    0.00    1.70    0.85    YES
L0001618           0   0.36390E-05   486950.3 3765963.4   541.7    0.00    1.70    0.85    YES
L0001619           0   0.36390E-05   486953.7 3765962.2   541.9    0.00    1.70    0.85    YES
L0001620           0   0.36390E-05   486957.2 3765961.0   542.1    0.00    1.70    0.85    YES
L0001621           0   0.36390E-05   486960.6 3765959.8   542.3    0.00    1.70    0.85    YES
L0001622           0   0.36390E-05   486964.1 3765958.6   542.5    0.00    1.70    0.85    YES
L0001623           0   0.36390E-05   486967.5 3765957.3   542.7    0.00    1.70    0.85    YES
L0001624           0   0.36390E-05   486971.0 3765956.1   542.9    0.00    1.70    0.85    YES
L0001625           0   0.36390E-05   486974.4 3765954.9   543.0    0.00    1.70    0.85    YES
L0001626           0   0.36390E-05   486977.9 3765953.7   543.2    0.00    1.70    0.85    YES
L0001627           0   0.36390E-05   486981.3 3765952.5   543.4    0.00    1.70    0.85    YES
L0001628           0   0.36390E-05   486984.8 3765951.2   543.5    0.00    1.70    0.85    YES
L0001629           0   0.36390E-05   486988.2 3765950.0   543.7    0.00    1.70    0.85    YES
L0001630           0   0.36390E-05   486991.7 3765948.8   543.8    0.00    1.70    0.85    YES
L0001631           0   0.36390E-05   486995.1 3765947.6   543.9    0.00    1.70    0.85    YES
L0001632           0   0.36390E-05   486998.6 3765946.4   544.0    0.00    1.70    0.85    YES
L0001633           0   0.36390E-05   487002.0 3765945.1   544.1    0.00    1.70    0.85    YES
L0001634           0   0.36390E-05   487005.5 3765943.9   544.2    0.00    1.70    0.85    YES
L0001635           0   0.36390E-05   487008.9 3765942.7   544.3    0.00    1.70    0.85    YES
L0001636           0   0.36390E-05   487012.4 3765941.5   544.3    0.00    1.70    0.85    YES
L0001637           0   0.36390E-05   487015.8 3765940.3   544.4    0.00    1.70    0.85    YES
L0001638           0   0.36390E-05   487019.3 3765939.0   544.5    0.00    1.70    0.85    YES
L0001639           0   0.36390E-05   487022.7 3765937.7   544.5    0.00    1.70    0.85    YES
L0001640           0   0.36390E-05   487026.1 3765936.4   544.7    0.00    1.70    0.85    YES
L0001641           0   0.36390E-05   487029.5 3765935.1   544.9    0.00    1.70    0.85    YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001642	0	0.36390E-05	487032.9	3765933.7	545.0	0.00	1.70	0.85	YES	
L0001643	0	0.36390E-05	487036.3	3765932.4	545.2	0.00	1.70	0.85	YES	
L0001644	0	0.36390E-05	487039.7	3765931.0	545.4	0.00	1.70	0.85	YES	
L0001645	0	0.36390E-05	487043.1	3765929.7	545.6	0.00	1.70	0.85	YES	
L0001646	0	0.36390E-05	487046.5	3765928.4	545.8	0.00	1.70	0.85	YES	
L0001647	0	0.36390E-05	487049.9	3765927.0	546.0	0.00	1.70	0.85	YES	
L0001648	0	0.36390E-05	487053.3	3765925.7	546.2	0.00	1.70	0.85	YES	

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L0001649          0    0.36390E-05  487056.7 3765924.3   546.4    0.00    1.70    0.85    YES
L0001650          0    0.36390E-05  487060.1 3765923.0   546.6    0.00    1.70    0.85    YES
L0001651          0    0.36390E-05  487063.5 3765921.7   546.7    0.00    1.70    0.85    YES
L0001652          0    0.36390E-05  487066.9 3765920.3   546.9    0.00    1.70    0.85    YES
L0001653          0    0.36390E-05  487070.3 3765919.0   547.0    0.00    1.70    0.85    YES
L0001654          0    0.36390E-05  487073.7 3765917.6   547.2    0.00    1.70    0.85    YES
L0001655          0    0.36390E-05  487077.1 3765916.3   547.3    0.00    1.70    0.85    YES
L0001656          0    0.36390E-05  487080.5 3765915.0   547.4    0.00    1.70    0.85    YES
L0001657          0    0.36390E-05  487083.9 3765913.6   547.5    0.00    1.70    0.85    YES
L0001658          0    0.36390E-05  487087.3 3765912.3   547.6    0.00    1.70    0.85    YES
L0001659          0    0.36390E-05  487090.7 3765910.9   547.6    0.00    1.70    0.85    YES
L0001660          0    0.36390E-05  487094.1 3765909.6   547.7    0.00    1.70    0.85    YES
L0001661          0    0.36390E-05  487097.5 3765908.3   547.7    0.00    1.70    0.85    YES
L0001662          0    0.36390E-05  487100.9 3765906.9   547.8    0.00    1.70    0.85    YES
L0001663          0    0.36390E-05  487104.4 3765905.6   547.9    0.00    1.70    0.85    YES
L0001664          0    0.36390E-05  487107.8 3765904.2   548.0    0.00    1.70    0.85    YES
L0001665          0    0.36390E-05  487111.2 3765902.9   548.2    0.00    1.70    0.85    YES
L0001666          0    0.36390E-05  487114.6 3765901.6   548.3    0.00    1.70    0.85    YES
L0001667          0    0.36390E-05  487118.0 3765900.2   548.6    0.00    1.70    0.85    YES
L0001668          0    0.36390E-05  487121.4 3765898.9   548.8    0.00    1.70    0.85    YES
L0001669          0    0.36390E-05  487124.8 3765897.5   549.0    0.00    1.70    0.85    YES
L0001670          0    0.36390E-05  487128.2 3765896.2   549.2    0.00    1.70    0.85    YES
L0001671          0    0.36390E-05  487131.5 3765894.7   549.5    0.00    1.70    0.85    YES
L0001672          0    0.36390E-05  487134.8 3765893.2   549.7    0.00    1.70    0.85    YES
L0001673          0    0.36390E-05  487138.2 3765891.7   549.9    0.00    1.70    0.85    YES
L0001674          0    0.36390E-05  487141.5 3765890.2   550.2    0.00    1.70    0.85    YES
L0001675          0    0.36390E-05  487144.9 3765888.7   550.8    0.00    1.70    0.85    YES
L0001676          0    0.36390E-05  487148.2 3765887.2   551.3    0.00    1.70    0.85    YES
L0001677          0    0.36390E-05  487151.6 3765885.8   551.8    0.00    1.70    0.85    YES
L0001678          0    0.36390E-05  487154.9 3765884.3   552.3    0.00    1.70    0.85    YES
L0001679          0    0.36390E-05  487158.2 3765882.8   552.8    0.00    1.70    0.85    YES
L0001680          0    0.36390E-05  487161.6 3765881.3   553.2    0.00    1.70    0.85    YES
L0001681          0    0.36390E-05  487164.9 3765879.8   553.6    0.00    1.70    0.85    YES
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*** 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
L0001682	0	0.36390E-05	487168.3	3765878.3	554.0	0.00	1.70	0.85	YES	
L0001683	0	0.36390E-05	487171.6	3765876.8	554.4	0.00	1.70	0.85	YES	
L0001684	0	0.36390E-05	487174.9	3765875.4	554.8	0.00	1.70	0.85	YES	
L0001685	0	0.36390E-05	487178.3	3765873.9	555.1	0.00	1.70	0.85	YES	

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L0001686      0   0.36390E-05  487181.6 3765872.4   555.4    0.00    1.70    0.85    YES
L0001687      0   0.36390E-05  487185.0 3765870.9   555.7    0.00    1.70    0.85    YES
L0001688      0   0.36390E-05  487188.3 3765869.4   555.9    0.00    1.70    0.85    YES
L0001689      0   0.36390E-05  487191.7 3765867.9   556.1    0.00    1.70    0.85    YES
L0001690      0   0.36390E-05  487195.0 3765866.4   555.8    0.00    1.70    0.85    YES
L0001691      0   0.36390E-05  487198.3 3765865.0   555.4    0.00    1.70    0.85    YES
L0001692      0   0.36390E-05  487201.7 3765863.5   555.1    0.00    1.70    0.85    YES
L0001693      0   0.36390E-05  487205.0 3765862.0   554.8    0.00    1.70    0.85    YES
L0001694      0   0.36390E-05  487208.4 3765860.5   554.6    0.00    1.70    0.85    YES
L0001695      0   0.36390E-05  487211.7 3765859.0   554.4    0.00    1.70    0.85    YES
L0001696      0   0.36390E-05  487215.1 3765857.5   554.2    0.00    1.70    0.85    YES
L0001697      0   0.36390E-05  487218.4 3765856.0   554.2    0.00    1.70    0.85    YES
L0001698      0   0.36390E-05  487221.7 3765854.6   554.3    0.00    1.70    0.85    YES
L0001699      0   0.36390E-05  487225.1 3765853.1   554.4    0.00    1.70    0.85    YES
L0001700      0   0.36390E-05  487228.4 3765851.6   554.5    0.00    1.70    0.85    YES
L0001701      0   0.36390E-05  487231.8 3765850.1   554.6    0.00    1.70    0.85    YES
L0001702      0   0.36390E-05  487235.1 3765848.6   554.7    0.00    1.70    0.85    YES
L0001703      0   0.36390E-05  487238.5 3765847.1   554.8    0.00    1.70    0.85    YES
L0001704      0   0.36390E-05  487241.8 3765845.6   554.9    0.00    1.70    0.85    YES
L0001705      0   0.36390E-05  487245.1 3765844.2   555.1    0.00    1.70    0.85    YES
L0001706      0   0.36390E-05  487248.5 3765842.7   555.4    0.00    1.70    0.85    YES
L0001707      0   0.36390E-05  487251.8 3765841.2   555.7    0.00    1.70    0.85    YES
L0001708      0   0.36390E-05  487255.2 3765839.7   556.0    0.00    1.70    0.85    YES
L0001709      0   0.36390E-05  487258.4 3765838.0   556.3    0.00    1.70    0.85    YES
L0001710      0   0.36390E-05  487261.6 3765836.3   556.5    0.00    1.70    0.85    YES
L0001711      0   0.36390E-05  487264.8 3765834.5   556.8    0.00    1.70    0.85    YES
L0001712      0   0.36390E-05  487268.0 3765832.8   557.0    0.00    1.70    0.85    YES
L0001713      0   0.36390E-05  487271.2 3765831.0   557.3    0.00    1.70    0.85    YES
L0001714      0   0.36390E-05  487274.5 3765829.2   557.7    0.00    1.70    0.85    YES
L0001715      0   0.36390E-05  487277.7 3765827.5   557.9    0.00    1.70    0.85    YES
L0001716      0   0.36390E-05  487280.9 3765825.7   558.2    0.00    1.70    0.85    YES
L0001717      0   0.36390E-05  487284.1 3765824.0   558.4    0.00    1.70    0.85    YES
L0001718      0   0.36390E-05  487287.3 3765822.2   558.6    0.00    1.70    0.85    YES
L0001719      0   0.36390E-05  487290.5 3765820.5   558.7    0.00    1.70    0.85    YES
L0001720      0   0.36390E-05  487293.7 3765818.7   558.8    0.00    1.70    0.85    YES
L0001721      0   0.36390E-05  487296.9 3765817.0   558.9    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2028-2041   ***   21:00:06
                                                                                                                          PAGE   7
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

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

   L0001722   0   0.36390E-05 487300.1 3765815.2   559.0   0.00   1.70   0.85   YES

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L0001723      0   0.36390E-05  487303.3 3765813.5   559.1    0.00    1.70    0.85    YES
L0001724      0   0.36390E-05  487306.6 3765811.7   559.3    0.00    1.70    0.85    YES
L0001725      0   0.36390E-05  487309.8 3765810.0   559.5    0.00    1.70    0.85    YES
L0001726      0   0.36390E-05  487313.0 3765808.2   559.7    0.00    1.70    0.85    YES
L0001727      0   0.36390E-05  487316.2 3765806.5   559.9    0.00    1.70    0.85    YES
L0001728      0   0.36390E-05  487319.4 3765804.7   560.1    0.00    1.70    0.85    YES
L0001729      0   0.36390E-05  487322.6 3765802.9   560.4    0.00    1.70    0.85    YES
L0001730      0   0.36390E-05  487325.8 3765801.2   560.8    0.00    1.70    0.85    YES
L0001731      0   0.36390E-05  487329.0 3765799.4   561.2    0.00    1.70    0.85    YES
L0001732      0   0.36390E-05  487332.2 3765797.7   561.5    0.00    1.70    0.85    YES
L0001733      0   0.36390E-05  487335.4 3765795.9   561.8    0.00    1.70    0.85    YES
L0001734      0   0.36390E-05  487338.7 3765794.2   562.0    0.00    1.70    0.85    YES
L0001735      0   0.36390E-05  487341.9 3765792.4   562.2    0.00    1.70    0.85    YES
L0001736      0   0.36390E-05  487345.1 3765790.7   562.4    0.00    1.70    0.85    YES
L0001737      0   0.36390E-05  487348.3 3765788.9   562.8    0.00    1.70    0.85    YES
L0001738      0   0.36390E-05  487351.5 3765787.2   563.2    0.00    1.70    0.85    YES
L0001739      0   0.36390E-05  487354.7 3765785.4   563.6    0.00    1.70    0.85    YES
L0001740      0   0.36390E-05  487357.9 3765783.7   563.9    0.00    1.70    0.85    YES
L0001741      0   0.36390E-05  487361.1 3765781.9   564.3    0.00    1.70    0.85    YES
L0001742      0   0.36390E-05  487364.3 3765780.2   564.6    0.00    1.70    0.85    YES
L0001743      0   0.36390E-05  487367.6 3765778.4   565.0    0.00    1.70    0.85    YES
L0001744      0   0.36390E-05  487370.8 3765776.8   565.2    0.00    1.70    0.85    YES
L0001745      0   0.36390E-05  487374.1 3765775.1   565.5    0.00    1.70    0.85    YES
L0001746      0   0.36390E-05  487377.3 3765773.4   565.8    0.00    1.70    0.85    YES
L0001747      0   0.36390E-05  487380.5 3765771.7   566.0    0.00    1.70    0.85    YES
L0001748      0   0.36390E-05  487383.8 3765770.0   566.2    0.00    1.70    0.85    YES
L0001749      0   0.36390E-05  487387.0 3765768.3   566.4    0.00    1.70    0.85    YES
L0001750      0   0.36390E-05  487390.3 3765766.6   566.5    0.00    1.70    0.85    YES
L0001751      0   0.36390E-05  487393.5 3765764.9   566.6    0.00    1.70    0.85    YES
L0001752      0   0.36390E-05  487396.8 3765763.2   566.7    0.00    1.70    0.85    YES
L0001753      0   0.36390E-05  487400.0 3765761.5   567.1    0.00    1.70    0.85    YES
L0001754      0   0.36390E-05  487403.2 3765759.8   567.5    0.00    1.70    0.85    YES
L0001755      0   0.36390E-05  487406.5 3765758.1   567.8    0.00    1.70    0.85    YES
L0001756      0   0.36390E-05  487409.7 3765756.4   568.1    0.00    1.70    0.85    YES
L0001757      0   0.36390E-05  487413.0 3765754.8   568.3    0.00    1.70    0.85    YES
L0001758      0   0.36390E-05  487416.2 3765753.1   568.5    0.00    1.70    0.85    YES
L0001759      0   0.36390E-05  487419.5 3765751.4   568.9    0.00    1.70    0.85    YES
L0001760      0   0.36390E-05  487422.7 3765749.7   569.3    0.00    1.70    0.85    YES
L0001761      0   0.36390E-05  487425.9 3765748.0   570.1    0.00    1.70    0.85    YES
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*** 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

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
L0001762          0   0.36390E-05   487429.2 3765746.3    570.8    0.00    1.70    0.85      YES
L0001763          0   0.36390E-05   487432.4 3765744.6    571.4    0.00    1.70    0.85      YES
L0001764          0   0.36390E-05   487435.7 3765742.9    571.8    0.00    1.70    0.85      YES
L0001765          0   0.36390E-05   487438.9 3765741.2    572.2    0.00    1.70    0.85      YES
L0001766          0   0.36390E-05   487442.2 3765739.5    572.5    0.00    1.70    0.85      YES
L0001767          0   0.36390E-05   487445.4 3765737.8    572.7    0.00    1.70    0.85      YES
L0001768          0   0.36390E-05   487448.6 3765736.1    572.8    0.00    1.70    0.85      YES
L0001769          0   0.36390E-05   487451.8 3765734.4    573.0    0.00    1.70    0.85      YES
L0001770          0   0.36390E-05   487455.1 3765732.7    573.1    0.00    1.70    0.85      YES
L0001771          0   0.36390E-05   487458.3 3765730.9    573.1    0.00    1.70    0.85      YES
L0001772          0   0.36390E-05   487461.5 3765729.2    573.1    0.00    1.70    0.85      YES
L0001773          0   0.36390E-05   487464.7 3765727.5    573.0    0.00    1.70    0.85      YES
L0001774          0   0.36390E-05   487468.0 3765725.8    572.9    0.00    1.70    0.85      YES
L0001775          0   0.36390E-05   487471.2 3765724.0    572.7    0.00    1.70    0.85      YES
L0001776          0   0.36390E-05   487474.4 3765722.3    572.4    0.00    1.70    0.85      YES
L0001777          0   0.36390E-05   487477.7 3765720.6    572.5    0.00    1.70    0.85      YES
L0001778          0   0.36390E-05   487480.9 3765718.9    572.8    0.00    1.70    0.85      YES
L0001779          0   0.36390E-05   487484.1 3765717.2    573.1    0.00    1.70    0.85      YES
L0001780          0   0.36390E-05   487487.3 3765715.4    573.3    0.00    1.70    0.85      YES
L0001781          0   0.36390E-05   487490.6 3765713.7    573.5    0.00    1.70    0.85      YES
L0001782          0   0.36390E-05   487493.8 3765712.0    573.6    0.00    1.70    0.85      YES
L0001783          0   0.36390E-05   487497.0 3765710.3    573.7    0.00    1.70    0.85      YES
L0001784          0   0.36390E-05   487500.2 3765708.6    573.9    0.00    1.70    0.85      YES
L0001785          0   0.36390E-05   487503.5 3765706.8    574.2    0.00    1.70    0.85      YES
L0001786          0   0.36390E-05   487506.7 3765705.1    574.5    0.00    1.70    0.85      YES
L0001787          0   0.36390E-05   487509.9 3765703.4    574.8    0.00    1.70    0.85      YES
L0001788          0   0.36390E-05   487513.2 3765701.7    575.0    0.00    1.70    0.85      YES
L0001789          0   0.36390E-05   487516.4 3765699.9    575.2    0.00    1.70    0.85      YES
L0001790          0   0.36390E-05   487519.6 3765698.2    575.4    0.00    1.70    0.85      YES
L0001791          0   0.36390E-05   487522.8 3765696.5    575.5    0.00    1.70    0.85      YES
L0001792          0   0.36390E-05   487526.0 3765694.8    575.7    0.00    1.70    0.85      YES
L0001793          0   0.36390E-05   487529.3 3765693.0    576.1    0.00    1.70    0.85      YES
L0001794          0   0.36390E-05   487532.5 3765691.3    576.5    0.00    1.70    0.85      YES
L0001795          0   0.36390E-05   487535.7 3765689.6    577.1    0.00    1.70    0.85      YES
L0001796          0   0.36390E-05   487538.9 3765687.8    577.6    0.00    1.70    0.85      YES
L0001797          0   0.36390E-05   487542.2 3765686.1    578.1    0.00    1.70    0.85      YES
L0001798          0   0.36390E-05   487545.4 3765684.3    578.5    0.00    1.70    0.85      YES
L0001799          0   0.36390E-05   487548.6 3765682.6    578.8    0.00    1.70    0.85      YES
L0001800          0   0.36390E-05   487551.8 3765680.9    579.1    0.00    1.70    0.85      YES
L0001801          0   0.36390E-05   487555.0 3765679.1    579.5    0.00    1.70    0.85      YES

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***       08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                 ***       21:00:06
                                                                                                            PAGE    9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                  *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001802	0	0.36390E-05	487558.3	3765677.4	579.8	0.00	1.70	0.85	YES	
L0001803	0	0.36390E-05	487561.5	3765675.7	580.1	0.00	1.70	0.85	YES	
L0001804	0	0.36390E-05	487564.7	3765673.9	580.2	0.00	1.70	0.85	YES	
L0001805	0	0.36390E-05	487567.9	3765672.2	580.2	0.00	1.70	0.85	YES	
L0001806	0	0.36390E-05	487571.1	3765670.5	580.1	0.00	1.70	0.85	YES	
L0001807	0	0.36390E-05	487574.3	3765668.7	579.9	0.00	1.70	0.85	YES	
L0001808	0	0.36390E-05	487577.5	3765666.8	579.6	0.00	1.70	0.85	YES	
L0001809	0	0.36390E-05	487580.6	3765664.9	579.5	0.00	1.70	0.85	YES	
L0001810	0	0.36390E-05	487583.7	3765663.0	579.2	0.00	1.70	0.85	YES	
L0001811	0	0.36390E-05	487586.8	3765661.1	578.9	0.00	1.70	0.85	YES	
L0001812	0	0.36390E-05	487590.0	3765659.2	578.9	0.00	1.70	0.85	YES	
L0001813	0	0.36390E-05	487593.1	3765657.3	579.3	0.00	1.70	0.85	YES	
L0001814	0	0.36390E-05	487596.2	3765655.4	579.6	0.00	1.70	0.85	YES	
L0001815	0	0.36390E-05	487599.4	3765653.6	579.9	0.00	1.70	0.85	YES	
L0001816	0	0.36390E-05	487602.5	3765651.7	580.1	0.00	1.70	0.85	YES	
L0001817	0	0.36390E-05	487605.6	3765649.8	580.1	0.00	1.70	0.85	YES	
L0001818	0	0.36390E-05	487608.8	3765647.9	580.1	0.00	1.70	0.85	YES	
L0001819	0	0.36390E-05	487612.0	3765646.2	580.1	0.00	1.70	0.85	YES	
L0001820	0	0.36390E-05	487615.3	3765644.6	580.2	0.00	1.70	0.85	YES	
L0001821	0	0.36390E-05	487618.6	3765643.0	580.2	0.00	1.70	0.85	YES	
L0001822	0	0.36390E-05	487621.9	3765641.4	580.1	0.00	1.70	0.85	YES	
L0001823	0	0.36390E-05	487625.2	3765639.8	580.1	0.00	1.70	0.85	YES	
L0001824	0	0.36390E-05	487628.5	3765638.2	579.9	0.00	1.70	0.85	YES	
L0001825	0	0.36390E-05	487631.8	3765636.6	579.6	0.00	1.70	0.85	YES	
L0001826	0	0.36390E-05	487635.1	3765635.1	579.5	0.00	1.70	0.85	YES	
L0001827	0	0.36510E-05	486606.8	3766048.4	528.6	0.00	1.70	0.85	YES	
L0001828	0	0.36510E-05	486610.3	3766047.3	528.8	0.00	1.70	0.85	YES	
L0001829	0	0.36510E-05	486613.8	3766046.2	528.9	0.00	1.70	0.85	YES	
L0001830	0	0.36510E-05	486617.3	3766045.0	529.0	0.00	1.70	0.85	YES	
L0001831	0	0.36510E-05	486620.7	3766043.9	529.1	0.00	1.70	0.85	YES	
L0001832	0	0.36510E-05	486624.2	3766042.8	529.2	0.00	1.70	0.85	YES	
L0001833	0	0.36510E-05	486627.7	3766041.6	529.4	0.00	1.70	0.85	YES	
L0001834	0	0.36510E-05	486631.2	3766040.5	529.5	0.00	1.70	0.85	YES	
L0001835	0	0.36510E-05	486634.6	3766039.3	529.7	0.00	1.70	0.85	YES	
L0001836	0	0.36510E-05	486638.1	3766038.2	529.8	0.00	1.70	0.85	YES	
L0001837	0	0.36510E-05	486641.6	3766037.1	530.0	0.00	1.70	0.85	YES	
L0001838	0	0.36510E-05	486645.1	3766035.9	530.1	0.00	1.70	0.85	YES	
L0001839	0	0.36510E-05	486648.5	3766034.8	530.3	0.00	1.70	0.85	YES	
L0001840	0	0.36510E-05	486652.0	3766033.6	530.5	0.00	1.70	0.85	YES	
L0001841	0	0.36510E-05	486655.5	3766032.5	530.6	0.00	1.70	0.85	YES	

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                       ***      21:00:06
                                                                                                                  PAGE  10
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                           *** VOLUME SOURCE DATA ***


               NUMBER EMISSION RATE                    BASE    RELEASE   INIT.    INIT.   URBAN   EMISSION RATE
    SOURCE     PART.  (GRAMS/SEC)    X         Y        ELEV.   HEIGHT    SY       SZ      SOURCE  SCALAR VARY
      ID       CATS.               (METERS)  (METERS) (METERS) (METERS) (METERS) (METERS)            BY
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   L0001842       0   0.36510E-05  486659.0 3766031.4  530.8    0.00     1.70     0.85     YES
   L0001843       0   0.36510E-05  486662.5 3766030.2  530.9    0.00     1.70     0.85     YES
   L0001844       0   0.36510E-05  486665.9 3766029.1  531.0    0.00     1.70     0.85     YES
   L0001845       0   0.36510E-05  486669.4 3766028.0  531.1    0.00     1.70     0.85     YES
   L0001846       0   0.36510E-05  486672.9 3766026.8  531.2    0.00     1.70     0.85     YES
   L0001847       0   0.36510E-05  486676.4 3766025.7  531.3    0.00     1.70     0.85     YES
   L0001848       0   0.36510E-05  486679.8 3766024.5  531.4    0.00     1.70     0.85     YES
   L0001849       0   0.36510E-05  486683.3 3766023.4  531.5    0.00     1.70     0.85     YES
   L0001850       0   0.36510E-05  486686.8 3766022.3  531.6    0.00     1.70     0.85     YES
   L0001851       0   0.36510E-05  486690.3 3766021.1  531.7    0.00     1.70     0.85     YES
   L0001852       0   0.36510E-05  486693.7 3766020.0  531.9    0.00     1.70     0.85     YES
   L0001853       0   0.36510E-05  486697.2 3766018.9  532.0    0.00     1.70     0.85     YES
   L0001854       0   0.36510E-05  486700.7 3766017.7  532.1    0.00     1.70     0.85     YES
   L0001855       0   0.36510E-05  486704.2 3766016.6  532.3    0.00     1.70     0.85     YES
   L0001856       0   0.36510E-05  486707.6 3766015.4  532.4    0.00     1.70     0.85     YES
   L0001857       0   0.36510E-05  486711.1 3766014.3  532.6    0.00     1.70     0.85     YES
   L0001858       0   0.36510E-05  486714.6 3766013.2  532.8    0.00     1.70     0.85     YES
   L0001859       0   0.36510E-05  486718.1 3766012.0  532.9    0.00     1.70     0.85     YES
   L0001860       0   0.36510E-05  486721.5 3766010.9  533.1    0.00     1.70     0.85     YES
   L0001861       0   0.36510E-05  486725.0 3766009.7  533.2    0.00     1.70     0.85     YES
   L0001862       0   0.36510E-05  486728.5 3766008.6  533.4    0.00     1.70     0.85     YES
   L0001863       0   0.36510E-05  486732.0 3766007.5  533.6    0.00     1.70     0.85     YES
   L0001864       0   0.36510E-05  486735.4 3766006.3  533.8    0.00     1.70     0.85     YES
   L0001865       0   0.36510E-05  486738.9 3766005.2  534.0    0.00     1.70     0.85     YES
   L0001866       0   0.36510E-05  486742.4 3766004.0  534.1    0.00     1.70     0.85     YES
   L0001867       0   0.36510E-05  486745.8 3766002.8  534.3    0.00     1.70     0.85     YES
   L0001868       0   0.36510E-05  486749.3 3766001.6  534.5    0.00     1.70     0.85     YES
   L0001869       0   0.36510E-05  486752.7 3766000.4  534.7    0.00     1.70     0.85     YES
   L0001870       0   0.36510E-05  486756.2 3765999.2  534.8    0.00     1.70     0.85     YES
   L0001871       0   0.36510E-05  486759.7 3765998.0  534.9    0.00     1.70     0.85     YES
   L0001872       0   0.36510E-05  486763.1 3765996.8  535.0    0.00     1.70     0.85     YES
   L0001873       0   0.36510E-05  486766.6 3765995.6  535.1    0.00     1.70     0.85     YES
   L0001874       0   0.36510E-05  486770.0 3765994.4  535.2    0.00     1.70     0.85     YES
   L0001875       0   0.36510E-05  486773.5 3765993.1  535.3    0.00     1.70     0.85     YES
   L0001876       0   0.36510E-05  486776.9 3765991.9  535.4    0.00     1.70     0.85     YES
   L0001877       0   0.36510E-05  486780.4 3765990.7  535.6    0.00     1.70     0.85     YES
   L0001878       0   0.36510E-05  486783.8 3765989.5  535.7    0.00     1.70     0.85     YES
   L0001879       0   0.36510E-05  486787.3 3765988.3  535.8    0.00     1.70     0.85     YES
   L0001880       0   0.36510E-05  486790.7 3765987.1  536.0    0.00     1.70     0.85     YES
   L0001881       0   0.36510E-05  486794.2 3765985.9  536.1    0.00     1.70     0.85     YES
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*** AERMOD – VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET – VERSION 16216 ***   *** Freeway-related DPM Concentrations 2028-2041   ***   21:00:06

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*** 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
L0001882	0	0.36510E-05	486797.6	3765984.7	536.3	0.00	1.70	0.85	YES	
L0001883	0	0.36510E-05	486801.1	3765983.4	536.4	0.00	1.70	0.85	YES	
L0001884	0	0.36510E-05	486804.5	3765982.2	536.6	0.00	1.70	0.85	YES	
L0001885	0	0.36510E-05	486808.0	3765981.0	536.8	0.00	1.70	0.85	YES	
L0001886	0	0.36510E-05	486811.4	3765979.8	537.0	0.00	1.70	0.85	YES	
L0001887	0	0.36510E-05	486814.9	3765978.6	537.1	0.00	1.70	0.85	YES	
L0001888	0	0.36510E-05	486818.3	3765977.4	537.3	0.00	1.70	0.85	YES	
L0001889	0	0.36510E-05	486821.8	3765976.2	537.5	0.00	1.70	0.85	YES	
L0001890	0	0.36510E-05	486825.2	3765975.0	537.7	0.00	1.70	0.85	YES	
L0001891	0	0.36510E-05	486828.7	3765973.8	537.9	0.00	1.70	0.85	YES	
L0001892	0	0.36510E-05	486832.1	3765972.5	538.0	0.00	1.70	0.85	YES	
L0001893	0	0.36510E-05	486835.6	3765971.3	538.2	0.00	1.70	0.85	YES	
L0001894	0	0.36510E-05	486839.0	3765970.1	538.4	0.00	1.70	0.85	YES	
L0001895	0	0.36510E-05	486842.5	3765969.0	538.6	0.00	1.70	0.85	YES	
L0001896	0	0.36510E-05	486846.0	3765967.9	538.7	0.00	1.70	0.85	YES	
L0001897	0	0.36510E-05	486849.5	3765966.8	538.8	0.00	1.70	0.85	YES	
L0001898	0	0.36510E-05	486852.9	3765965.6	538.9	0.00	1.70	0.85	YES	
L0001899	0	0.36510E-05	486856.4	3765964.5	539.0	0.00	1.70	0.85	YES	
L0001900	0	0.36510E-05	486859.9	3765963.4	539.1	0.00	1.70	0.85	YES	
L0001901	0	0.36510E-05	486863.4	3765962.3	539.2	0.00	1.70	0.85	YES	
L0001902	0	0.36510E-05	486866.9	3765961.1	539.3	0.00	1.70	0.85	YES	
L0001903	0	0.36510E-05	486870.3	3765960.0	539.4	0.00	1.70	0.85	YES	
L0001904	0	0.36510E-05	486873.8	3765958.9	539.6	0.00	1.70	0.85	YES	
L0001905	0	0.36510E-05	486877.3	3765957.8	539.7	0.00	1.70	0.85	YES	
L0001906	0	0.36510E-05	486880.8	3765956.6	539.8	0.00	1.70	0.85	YES	
L0001907	0	0.36510E-05	486884.3	3765955.5	540.0	0.00	1.70	0.85	YES	
L0001908	0	0.36510E-05	486887.8	3765954.4	540.1	0.00	1.70	0.85	YES	
L0001909	0	0.36510E-05	486891.2	3765953.3	540.3	0.00	1.70	0.85	YES	
L0001910	0	0.36510E-05	486894.7	3765952.1	540.4	0.00	1.70	0.85	YES	
L0001911	0	0.36510E-05	486898.2	3765951.0	540.6	0.00	1.70	0.85	YES	
L0001912	0	0.36510E-05	486901.7	3765949.9	540.7	0.00	1.70	0.85	YES	
L0001913	0	0.36510E-05	486905.2	3765948.8	540.9	0.00	1.70	0.85	YES	
L0001914	0	0.36510E-05	486908.6	3765947.6	541.1	0.00	1.70	0.85	YES	
L0001915	0	0.36510E-05	486912.1	3765946.5	541.2	0.00	1.70	0.85	YES	
L0001916	0	0.36510E-05	486915.6	3765945.4	541.4	0.00	1.70	0.85	YES	
L0001917	0	0.36510E-05	486919.1	3765944.3	541.6	0.00	1.70	0.85	YES	
L0001918	0	0.36510E-05	486922.6	3765943.1	541.8	0.00	1.70	0.85	YES	
L0001919	0	0.36510E-05	486926.0	3765942.0	541.9	0.00	1.70	0.85	YES	
L0001920	0	0.36510E-05	486929.5	3765940.9	542.1	0.00	1.70	0.85	YES	
L0001921	0	0.36510E-05	486933.0	3765939.8	542.3	0.00	1.70	0.85	YES	

*** VOLUME SOURCE DATA ***

| | NUMBER | EMISSION RATE | | | BASE | RELEASE | INIT. | INIT. | URBAN | EMISSION RATE |
| SOURCE | PART. | (GRAMS/SEC) | X | Y | ELEV. | HEIGHT | SY | SZ | SOURCE | SCALAR VARY |
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		BY
L0001922	0	0.36510E-05	486936.5	3765938.6	542.5	0.00	1.70	0.85	YES	
L0001923	0	0.36510E-05	486940.0	3765937.5	542.6	0.00	1.70	0.85	YES	
L0001924	0	0.36510E-05	486943.4	3765936.4	542.7	0.00	1.70	0.85	YES	
L0001925	0	0.36510E-05	486946.9	3765935.3	542.8	0.00	1.70	0.85	YES	
L0001926	0	0.36510E-05	486950.4	3765934.2	542.9	0.00	1.70	0.85	YES	
L0001927	0	0.36510E-05	486953.9	3765933.0	543.0	0.00	1.70	0.85	YES	
L0001928	0	0.36510E-05	486957.4	3765931.9	543.2	0.00	1.70	0.85	YES	
L0001929	0	0.36510E-05	486960.9	3765930.8	543.3	0.00	1.70	0.85	YES	
L0001930	0	0.36510E-05	486964.3	3765929.7	543.4	0.00	1.70	0.85	YES	
L0001931	0	0.36510E-05	486967.8	3765928.6	543.5	0.00	1.70	0.85	YES	
L0001932	0	0.36510E-05	486971.3	3765927.4	543.6	0.00	1.70	0.85	YES	
L0001933	0	0.36510E-05	486974.8	3765926.3	543.8	0.00	1.70	0.85	YES	
L0001934	0	0.36510E-05	486978.3	3765925.2	543.9	0.00	1.70	0.85	YES	
L0001935	0	0.36510E-05	486981.7	3765924.1	544.0	0.00	1.70	0.85	YES	
L0001936	0	0.36510E-05	486985.2	3765922.9	544.2	0.00	1.70	0.85	YES	
L0001937	0	0.36510E-05	486988.7	3765921.8	544.3	0.00	1.70	0.85	YES	
L0001938	0	0.36510E-05	486992.2	3765920.7	544.4	0.00	1.70	0.85	YES	
L0001939	0	0.36510E-05	486995.7	3765919.5	544.6	0.00	1.70	0.85	YES	
L0001940	0	0.36510E-05	486999.1	3765918.4	544.8	0.00	1.70	0.85	YES	
L0001941	0	0.36510E-05	487002.6	3765917.2	544.9	0.00	1.70	0.85	YES	
L0001942	0	0.36510E-05	487006.0	3765916.0	545.1	0.00	1.70	0.85	YES	
L0001943	0	0.36510E-05	487009.5	3765914.8	545.3	0.00	1.70	0.85	YES	
L0001944	0	0.36510E-05	487013.0	3765913.6	545.4	0.00	1.70	0.85	YES	
L0001945	0	0.36510E-05	487016.4	3765912.4	545.6	0.00	1.70	0.85	YES	
L0001946	0	0.36510E-05	487019.9	3765911.2	545.8	0.00	1.70	0.85	YES	
L0001947	0	0.36510E-05	487023.3	3765910.1	546.0	0.00	1.70	0.85	YES	
L0001948	0	0.36510E-05	487026.8	3765908.9	546.1	0.00	1.70	0.85	YES	
L0001949	0	0.36510E-05	487030.3	3765907.7	546.3	0.00	1.70	0.85	YES	
L0001950	0	0.36510E-05	487033.7	3765906.5	546.5	0.00	1.70	0.85	YES	
L0001951	0	0.36510E-05	487037.2	3765905.3	546.7	0.00	1.70	0.85	YES	
L0001952	0	0.36510E-05	487040.6	3765904.1	546.9	0.00	1.70	0.85	YES	
L0001953	0	0.36510E-05	487044.1	3765902.9	547.0	0.00	1.70	0.85	YES	
L0001954	0	0.36510E-05	487047.6	3765901.8	547.2	0.00	1.70	0.85	YES	
L0001955	0	0.36510E-05	487051.0	3765900.6	547.3	0.00	1.70	0.85	YES	
L0001956	0	0.36510E-05	487054.5	3765899.4	547.5	0.00	1.70	0.85	YES	
L0001957	0	0.36510E-05	487057.9	3765898.2	547.6	0.00	1.70	0.85	YES	
L0001958	0	0.36510E-05	487061.4	3765897.0	547.7	0.00	1.70	0.85	YES	

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L0001959           0    0.36510E-05  487064.9 3765895.8   547.8     0.00     1.70     0.85     YES
L0001960           0    0.36510E-05  487068.3 3765894.6   547.9     0.00     1.70     0.85     YES
L0001961           0    0.36510E-05  487071.8 3765893.5   548.0     0.00     1.70     0.85     YES
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*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                            ***      08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations 2028-2041                     ***      21:00:06
                                                                                                                PAGE  13
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0001962	0	0.36510E-05	487075.2	3765892.3	548.1	0.00	1.70	0.85	YES	
L0001963	0	0.36510E-05	487078.7	3765891.1	548.2	0.00	1.70	0.85	YES	
L0001964	0	0.36510E-05	487082.2	3765889.9	548.3	0.00	1.70	0.85	YES	
L0001965	0	0.36510E-05	487085.6	3765888.7	548.4	0.00	1.70	0.85	YES	
L0001966	0	0.36510E-05	487089.1	3765887.5	548.6	0.00	1.70	0.85	YES	
L0001967	0	0.36510E-05	487092.5	3765886.3	548.7	0.00	1.70	0.85	YES	
L0001968	0	0.36510E-05	487096.0	3765885.1	548.9	0.00	1.70	0.85	YES	
L0001969	0	0.36510E-05	487099.5	3765884.0	549.0	0.00	1.70	0.85	YES	
L0001970	0	0.36510E-05	487102.9	3765882.8	549.2	0.00	1.70	0.85	YES	
L0001971	0	0.36510E-05	487106.4	3765881.6	549.3	0.00	1.70	0.85	YES	
L0001972	0	0.36510E-05	487109.8	3765880.4	549.5	0.00	1.70	0.85	YES	
L0001973	0	0.36510E-05	487113.3	3765879.2	549.7	0.00	1.70	0.85	YES	
L0001974	0	0.36510E-05	487116.8	3765878.0	549.9	0.00	1.70	0.85	YES	
L0001975	0	0.36510E-05	487120.1	3765876.6	550.1	0.00	1.70	0.85	YES	
L0001976	0	0.36510E-05	487123.4	3765875.1	550.3	0.00	1.70	0.85	YES	
L0001977	0	0.36510E-05	487126.8	3765873.6	550.5	0.00	1.70	0.85	YES	
L0001978	0	0.36510E-05	487130.1	3765872.1	550.7	0.00	1.70	0.85	YES	
L0001979	0	0.36510E-05	487133.5	3765870.6	550.8	0.00	1.70	0.85	YES	
L0001980	0	0.36510E-05	487136.8	3765869.1	550.9	0.00	1.70	0.85	YES	
L0001981	0	0.36510E-05	487140.1	3765867.6	551.1	0.00	1.70	0.85	YES	
L0001982	0	0.36510E-05	487143.5	3765866.1	551.4	0.00	1.70	0.85	YES	
L0001983	0	0.36510E-05	487146.8	3765864.6	551.7	0.00	1.70	0.85	YES	
L0001984	0	0.36510E-05	487150.1	3765863.1	552.0	0.00	1.70	0.85	YES	
L0001985	0	0.36510E-05	487153.5	3765861.6	552.2	0.00	1.70	0.85	YES	
L0001986	0	0.36510E-05	487156.8	3765860.1	552.5	0.00	1.70	0.85	YES	
L0001987	0	0.36510E-05	487160.2	3765858.6	552.6	0.00	1.70	0.85	YES	
L0001988	0	0.36510E-05	487163.5	3765857.2	552.8	0.00	1.70	0.85	YES	
L0001989	0	0.36510E-05	487166.8	3765855.7	552.9	0.00	1.70	0.85	YES	
L0001990	0	0.36510E-05	487170.2	3765854.2	553.1	0.00	1.70	0.85	YES	
L0001991	0	0.36510E-05	487173.5	3765852.7	553.3	0.00	1.70	0.85	YES	
L0001992	0	0.36510E-05	487176.9	3765851.2	553.4	0.00	1.70	0.85	YES	
L0001993	0	0.36510E-05	487180.2	3765849.7	553.5	0.00	1.70	0.85	YES	
L0001994	0	0.36510E-05	487183.5	3765848.2	553.6	0.00	1.70	0.85	YES	
L0001995	0	0.36510E-05	487186.9	3765846.7	553.6	0.00	1.70	0.85	YES	

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L0001996           0    0.36510E-05  487190.2 3765845.2   553.6    0.00    1.70    0.85    YES
L0001997           0    0.36510E-05  487193.6 3765843.7   553.8    0.00    1.70    0.85    YES
L0001998           0    0.36510E-05  487196.9 3765842.2   553.9    0.00    1.70    0.85    YES
L0001999           0    0.36510E-05  487200.2 3765840.6   554.0    0.00    1.70    0.85    YES
L0002000           0    0.36510E-05  487203.5 3765839.0   554.2    0.00    1.70    0.85    YES
L0002001           0    0.36510E-05  487206.8 3765837.4   554.3    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                         ***        08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations 2028-2041                  ***        21:00:06
                                                                                                               PAGE  14
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002002	0	0.36510E-05	487210.1	3765835.8	554.3	0.00	1.70	0.85	YES	
L0002003	0	0.36510E-05	487213.3	3765834.2	554.4	0.00	1.70	0.85	YES	
L0002004	0	0.36510E-05	487216.6	3765832.6	554.5	0.00	1.70	0.85	YES	
L0002005	0	0.36510E-05	487219.9	3765831.0	554.6	0.00	1.70	0.85	YES	
L0002006	0	0.36510E-05	487223.2	3765829.4	554.7	0.00	1.70	0.85	YES	
L0002007	0	0.36510E-05	487226.5	3765827.8	554.9	0.00	1.70	0.85	YES	
L0002008	0	0.36510E-05	487229.8	3765826.2	555.0	0.00	1.70	0.85	YES	
L0002009	0	0.36510E-05	487233.1	3765824.6	555.1	0.00	1.70	0.85	YES	
L0002010	0	0.36510E-05	487236.4	3765823.0	555.2	0.00	1.70	0.85	YES	
L0002011	0	0.36510E-05	487239.7	3765821.4	555.4	0.00	1.70	0.85	YES	
L0002012	0	0.36510E-05	487243.0	3765819.8	555.5	0.00	1.70	0.85	YES	
L0002013	0	0.36510E-05	487246.2	3765818.2	555.7	0.00	1.70	0.85	YES	
L0002014	0	0.36510E-05	487249.5	3765816.6	555.9	0.00	1.70	0.85	YES	
L0002015	0	0.36510E-05	487252.8	3765815.0	556.1	0.00	1.70	0.85	YES	
L0002016	0	0.36510E-05	487256.1	3765813.4	556.2	0.00	1.70	0.85	YES	
L0002017	0	0.36510E-05	487259.4	3765811.9	556.4	0.00	1.70	0.85	YES	
L0002018	0	0.36510E-05	487262.7	3765810.3	556.6	0.00	1.70	0.85	YES	
L0002019	0	0.36510E-05	487266.0	3765808.7	556.8	0.00	1.70	0.85	YES	
L0002020	0	0.36510E-05	487269.3	3765807.1	556.9	0.00	1.70	0.85	YES	
L0002021	0	0.36510E-05	487272.6	3765805.5	557.2	0.00	1.70	0.85	YES	
L0002022	0	0.36510E-05	487275.9	3765803.9	557.4	0.00	1.70	0.85	YES	
L0002023	0	0.36510E-05	487279.1	3765802.3	557.5	0.00	1.70	0.85	YES	
L0002024	0	0.36510E-05	487282.4	3765800.6	557.7	0.00	1.70	0.85	YES	
L0002025	0	0.36510E-05	487285.6	3765798.8	557.9	0.00	1.70	0.85	YES	
L0002026	0	0.36510E-05	487288.7	3765797.0	558.0	0.00	1.70	0.85	YES	
L0002027	0	0.36510E-05	487291.9	3765795.1	558.2	0.00	1.70	0.85	YES	
L0002028	0	0.36510E-05	487295.1	3765793.3	558.3	0.00	1.70	0.85	YES	
L0002029	0	0.36510E-05	487298.2	3765791.4	558.5	0.00	1.70	0.85	YES	
L0002030	0	0.36510E-05	487301.4	3765789.6	558.6	0.00	1.70	0.85	YES	
L0002031	0	0.36510E-05	487304.5	3765787.7	558.8	0.00	1.70	0.85	YES	
L0002032	0	0.36510E-05	487307.7	3765785.9	558.9	0.00	1.70	0.85	YES	

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L0002033        0   0.36510E-05  487310.9 3765784.1   559.0    0.00    1.70    0.85    YES
L0002034        0   0.36510E-05  487314.0 3765782.2   559.2    0.00    1.70    0.85    YES
L0002035        0   0.36510E-05  487317.2 3765780.4   559.4    0.00    1.70    0.85    YES
L0002036        0   0.36510E-05  487320.3 3765778.5   559.6    0.00    1.70    0.85    YES
L0002037        0   0.36510E-05  487323.5 3765776.7   559.8    0.00    1.70    0.85    YES
L0002038        0   0.36510E-05  487326.7 3765774.9   560.1    0.00    1.70    0.85    YES
L0002039        0   0.36510E-05  487329.8 3765773.0   560.3    0.00    1.70    0.85    YES
L0002040        0   0.36510E-05  487333.0 3765771.2   560.5    0.00    1.70    0.85    YES
L0002041        0   0.36510E-05  487336.1 3765769.3   560.7    0.00    1.70    0.85    YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002042	0	0.36510E-05	487339.3	3765767.5	560.9	0.00	1.70	0.85	YES	
L0002043	0	0.36510E-05	487342.5	3765765.7	561.0	0.00	1.70	0.85	YES	
L0002044	0	0.36510E-05	487345.7	3765763.9	561.2	0.00	1.70	0.85	YES	
L0002045	0	0.36510E-05	487348.8	3765762.1	561.4	0.00	1.70	0.85	YES	
L0002046	0	0.36510E-05	487352.0	3765760.3	561.6	0.00	1.70	0.85	YES	
L0002047	0	0.36510E-05	487355.2	3765758.4	561.7	0.00	1.70	0.85	YES	
L0002048	0	0.36510E-05	487358.4	3765756.6	561.8	0.00	1.70	0.85	YES	
L0002049	0	0.36510E-05	487361.5	3765754.8	561.9	0.00	1.70	0.85	YES	
L0002050	0	0.36510E-05	487364.7	3765753.0	561.8	0.00	1.70	0.85	YES	
L0002051	0	0.36510E-05	487367.9	3765751.2	562.0	0.00	1.70	0.85	YES	
L0002052	0	0.36510E-05	487371.1	3765749.4	562.1	0.00	1.70	0.85	YES	
L0002053	0	0.36510E-05	487374.3	3765747.6	562.4	0.00	1.70	0.85	YES	
L0002054	0	0.36510E-05	487377.4	3765745.8	562.6	0.00	1.70	0.85	YES	
L0002055	0	0.36510E-05	487380.6	3765743.9	562.9	0.00	1.70	0.85	YES	
L0002056	0	0.36510E-05	487383.8	3765742.1	563.1	0.00	1.70	0.85	YES	
L0002057	0	0.36510E-05	487387.0	3765740.3	563.3	0.00	1.70	0.85	YES	
L0002058	0	0.36510E-05	487390.1	3765738.5	563.5	0.00	1.70	0.85	YES	
L0002059	0	0.36510E-05	487393.3	3765736.7	563.7	0.00	1.70	0.85	YES	
L0002060	0	0.36510E-05	487396.5	3765734.9	563.8	0.00	1.70	0.85	YES	
L0002061	0	0.36510E-05	487399.7	3765733.1	564.1	0.00	1.70	0.85	YES	
L0002062	0	0.36510E-05	487402.9	3765731.3	564.4	0.00	1.70	0.85	YES	
L0002063	0	0.36510E-05	487406.0	3765729.4	564.5	0.00	1.70	0.85	YES	
L0002064	0	0.36510E-05	487409.2	3765727.6	564.6	0.00	1.70	0.85	YES	
L0002065	0	0.36510E-05	487412.4	3765725.9	564.7	0.00	1.70	0.85	YES	
L0002066	0	0.36510E-05	487415.7	3765724.2	564.7	0.00	1.70	0.85	YES	
L0002067	0	0.36510E-05	487418.9	3765722.5	564.7	0.00	1.70	0.85	YES	
L0002068	0	0.36510E-05	487422.1	3765720.8	564.7	0.00	1.70	0.85	YES	
L0002069	0	0.36510E-05	487425.4	3765719.1	565.0	0.00	1.70	0.85	YES	

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L0002070          0    0.36510E-05   487428.6 3765717.4    565.2      0.00      1.70      0.85       YES
L0002071          0    0.36510E-05   487431.9 3765715.8    565.5      0.00      1.70      0.85       YES
L0002072          0    0.36510E-05   487435.1 3765714.1    565.7      0.00      1.70      0.85       YES
L0002073          0    0.36510E-05   487438.4 3765712.4    566.0      0.00      1.70      0.85       YES
L0002074          0    0.36510E-05   487441.6 3765710.7    566.2      0.00      1.70      0.85       YES
L0002075          0    0.36510E-05   487444.9 3765709.0    566.4      0.00      1.70      0.85       YES
L0002076          0    0.36510E-05   487448.1 3765707.3    566.6      0.00      1.70      0.85       YES
L0002077          0    0.36510E-05   487451.4 3765705.6    566.9      0.00      1.70      0.85       YES
L0002078          0    0.36510E-05   487454.6 3765704.0    567.2      0.00      1.70      0.85       YES
L0002079          0    0.36510E-05   487457.9 3765702.3    567.4      0.00      1.70      0.85       YES
L0002080          0    0.36510E-05   487461.1 3765700.6    567.6      0.00      1.70      0.85       YES
L0002081          0    0.36510E-05   487464.3 3765698.9    567.7      0.00      1.70      0.85       YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002082	0	0.36510E-05	487467.6	3765697.2	567.8	0.00	1.70	0.85	YES	
L0002083	0	0.36510E-05	487470.8	3765695.5	567.8	0.00	1.70	0.85	YES	
L0002084	0	0.36510E-05	487474.1	3765693.9	567.8	0.00	1.70	0.85	YES	
L0002085	0	0.36510E-05	487477.3	3765692.2	567.8	0.00	1.70	0.85	YES	
L0002086	0	0.36510E-05	487480.6	3765690.5	567.8	0.00	1.70	0.85	YES	
L0002087	0	0.36510E-05	487483.8	3765688.8	568.1	0.00	1.70	0.85	YES	
L0002088	0	0.36510E-05	487487.1	3765687.1	568.3	0.00	1.70	0.85	YES	
L0002089	0	0.36510E-05	487490.3	3765685.4	568.5	0.00	1.70	0.85	YES	
L0002090	0	0.36510E-05	487493.6	3765683.8	568.7	0.00	1.70	0.85	YES	
L0002091	0	0.36510E-05	487496.8	3765682.1	568.9	0.00	1.70	0.85	YES	
L0002092	0	0.36510E-05	487500.1	3765680.4	569.2	0.00	1.70	0.85	YES	
L0002093	0	0.36510E-05	487503.3	3765678.7	569.5	0.00	1.70	0.85	YES	
L0002094	0	0.36510E-05	487506.6	3765677.0	569.9	0.00	1.70	0.85	YES	
L0002095	0	0.36510E-05	487509.8	3765675.3	570.1	0.00	1.70	0.85	YES	
L0002096	0	0.36510E-05	487513.1	3765673.7	570.4	0.00	1.70	0.85	YES	
L0002097	0	0.36510E-05	487516.3	3765672.0	570.5	0.00	1.70	0.85	YES	
L0002098	0	0.36510E-05	487519.5	3765670.3	570.7	0.00	1.70	0.85	YES	
L0002099	0	0.36510E-05	487522.8	3765668.6	570.8	0.00	1.70	0.85	YES	
L0002100	0	0.36510E-05	487526.0	3765666.9	570.8	0.00	1.70	0.85	YES	
L0002101	0	0.36510E-05	487529.3	3765665.2	570.9	0.00	1.70	0.85	YES	
L0002102	0	0.36510E-05	487532.5	3765663.4	570.9	0.00	1.70	0.85	YES	
L0002103	0	0.36510E-05	487535.7	3765661.6	570.9	0.00	1.70	0.85	YES	
L0002104	0	0.36510E-05	487538.9	3765659.9	570.7	0.00	1.70	0.85	YES	
L0002105	0	0.36510E-05	487542.1	3765658.1	570.9	0.00	1.70	0.85	YES	
L0002106	0	0.36510E-05	487545.3	3765656.3	571.1	0.00	1.70	0.85	YES	

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L0002107        0    0.36510E-05   487548.5 3765654.6   571.2     0.00     1.70    0.85    YES
L0002108        0    0.36510E-05   487551.7 3765652.8   571.5     0.00     1.70    0.85    YES
L0002109        0    0.36510E-05   487554.9 3765651.0   571.8     0.00     1.70    0.85    YES
L0002110        0    0.36510E-05   487558.1 3765649.3   572.1     0.00     1.70    0.85    YES
L0002111        0    0.36510E-05   487561.3 3765647.5   572.4     0.00     1.70    0.85    YES
L0002112        0    0.36510E-05   487564.5 3765645.7   572.7     0.00     1.70    0.85    YES
L0002113        0    0.36510E-05   487567.7 3765644.0   572.9     0.00     1.70    0.85    YES
L0002114        0    0.36510E-05   487570.9 3765642.2   573.0     0.00     1.70    0.85    YES
L0002115        0    0.36510E-05   487574.1 3765640.4   573.2     0.00     1.70    0.85    YES
L0002116        0    0.36510E-05   487577.3 3765638.7   573.4     0.00     1.70    0.85    YES
L0002117        0    0.36510E-05   487580.6 3765637.1   573.6     0.00     1.70    0.85    YES
L0002118        0    0.36510E-05   487583.9 3765635.4   573.7     0.00     1.70    0.85    YES
L0002119        0    0.36510E-05   487587.1 3765633.8   573.7     0.00     1.70    0.85    YES
L0002120        0    0.36510E-05   487590.4 3765632.2   573.7     0.00     1.70    0.85    YES
L0002121        0    0.36510E-05   487593.7 3765630.5   573.6     0.00     1.70    0.85    YES
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*** AERMOD - VERSION 21112   ***    *** Terracina at Redlands                                              ***       08/11/21
*** AERMET - VERSION  16216 ***     *** Freeway-related DPM Concentrations 2028-2041                        ***       21:00:06
                                                                                                                     PAGE  17
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002122	0	0.36510E-05	487596.9	3765628.9	573.5	0.00	1.70	0.85	YES	
L0002123	0	0.36510E-05	487600.2	3765627.2	573.6	0.00	1.70	0.85	YES	
L0002124	0	0.36510E-05	487603.5	3765625.6	573.9	0.00	1.70	0.85	YES	
L0002125	0	0.36510E-05	487606.8	3765624.0	574.1	0.00	1.70	0.85	YES	
L0002126	0	0.36510E-05	487610.0	3765622.3	574.4	0.00	1.70	0.85	YES	
L0002127	0	0.36510E-05	487613.3	3765620.7	574.7	0.00	1.70	0.85	YES	
L0002128	0	0.36510E-05	487616.6	3765619.1	574.9	0.00	1.70	0.85	YES	
L0002129	0	0.36510E-05	487619.8	3765617.4	575.2	0.00	1.70	0.85	YES	
L0002130	0	0.36510E-05	487623.1	3765615.8	575.4	0.00	1.70	0.85	YES	

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*** AERMOD - VERSION 21112   ***    *** Terracina at Redlands                                              ***       08/11/21
*** AERMET - VERSION  16216 ***     *** Freeway-related DPM Concentrations 2028-2041                        ***       21:00:06
                                                                                                                     PAGE  18
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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SRCGROUP ID                                      SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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SRCGROUP ID                                    SOURCE IDs
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*** AERMOD – VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET – VERSION 16216 ***   *** Freeway-related DPM Concentrations 2028-2041   ***   21:00:06
                                                                                                                       PAGE 20
*** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs
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Apx - 242

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                       ***        21:00:06
                                                                                                                    PAGE  21
*** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN  ADJ_U*
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                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs

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*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2028-2041   ***   21:00:06
                                                                                                              PAGE 22
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

  URBAN ID   URBAN POP   SOURCE IDs
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          L0001602    , L0001603    , L0001604    , L0001605    , L0001606    , L0001607    , L0001608    , L0001609    ,

          L0001610    , L0001611    , L0001612    , L0001613    , L0001614    , L0001615    , L0001616    , L0001617    ,

          L0001618    , L0001619    , L0001620    , L0001621    , L0001622    , L0001623    , L0001624    , L0001625    ,

          L0001626    , L0001627    , L0001628    , L0001629    , L0001630    , L0001631    , L0001632    , L0001633    ,

          L0001634    , L0001635    , L0001636    , L0001637    , L0001638    , L0001639    , L0001640    , L0001641    ,

          L0001642    , L0001643    , L0001644    , L0001645    , L0001646    , L0001647    , L0001648    , L0001649    ,

          L0001650    , L0001651    , L0001652    , L0001653    , L0001654    , L0001655    , L0001656    , L0001657    ,

          L0001658    , L0001659    , L0001660    , L0001661    , L0001662    , L0001663    , L0001664    , L0001665    ,

          L0001666    , L0001667    , L0001668    , L0001669    , L0001670    , L0001671    , L0001672    , L0001673    ,

          L0001674    , L0001675    , L0001676    , L0001677    , L0001678    , L0001679    , L0001680    , L0001681    ,
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 URBAN ID   URBAN POP                                SOURCE IDs
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```
L0001682    , L0001683    , L0001684    , L0001685    , L0001686    , L0001687    , L0001688    , L0001689    ,

L0001690    , L0001691    , L0001692    , L0001693    , L0001694    , L0001695    , L0001696    , L0001697    ,

L0001698    , L0001699    , L0001700    , L0001701    , L0001702    , L0001703    , L0001704    , L0001705    ,

L0001706    , L0001707    , L0001708    , L0001709    , L0001710    , L0001711    , L0001712    , L0001713    ,

L0001714    , L0001715    , L0001716    , L0001717    , L0001718    , L0001719    , L0001720    , L0001721    ,

L0001722    , L0001723    , L0001724    , L0001725    , L0001726    , L0001727    , L0001728    , L0001729    ,

L0001730    , L0001731    , L0001732    , L0001733    , L0001734    , L0001735    , L0001736    , L0001737    ,

L0001738    , L0001739    , L0001740    , L0001741    , L0001742    , L0001743    , L0001744    , L0001745    ,

L0001746    , L0001747    , L0001748    , L0001749    , L0001750    , L0001751    , L0001752    , L0001753    ,

L0001754    , L0001755    , L0001756    , L0001757    , L0001758    , L0001759    , L0001760    , L0001761    ,

L0001762    , L0001763    , L0001764    , L0001765    , L0001766    , L0001767    , L0001768    , L0001769    ,

L0001770    , L0001771    , L0001772    , L0001773    , L0001774    , L0001775    , L0001776    , L0001777    ,

L0001778    , L0001779    , L0001780    , L0001781    , L0001782    , L0001783    , L0001784    , L0001785    ,

L0001786    , L0001787    , L0001788    , L0001789    , L0001790    , L0001791    , L0001792    , L0001793    ,

L0001794    , L0001795    , L0001796    , L0001797    , L0001798    , L0001799    , L0001800    , L0001801    ,

L0001802    , L0001803    , L0001804    , L0001805    , L0001806    , L0001807    , L0001808    , L0001809    ,

L0001810    , L0001811    , L0001812    , L0001813    , L0001814    , L0001815    , L0001816    , L0001817    ,

L0001818    , L0001819    , L0001820    , L0001821    , L0001822    , L0001823    , L0001824    , L0001825    ,

L0001826    , L0001827    , L0001828    , L0001829    , L0001830    , L0001831    , L0001832    , L0001833    ,

L0001834    , L0001835    , L0001836    , L0001837    , L0001838    , L0001839    , L0001840    , L0001841    ,
```

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                       ***        21:00:06
                                                                                                                    PAGE  24
*** MODELOPTs:    RegDFAULT  CONC   ELEV   URBAN   ADJ_U*


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

 URBAN ID    URBAN POP                                    SOURCE IDs
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```

```
        L0001842    , L0001843    , L0001844    , L0001845    , L0001846    , L0001847    , L0001848    , L0001849    ,

        L0001850    , L0001851    , L0001852    , L0001853    , L0001854    , L0001855    , L0001856    , L0001857    ,

        L0001858    , L0001859    , L0001860    , L0001861    , L0001862    , L0001863    , L0001864    , L0001865    ,

        L0001866    , L0001867    , L0001868    , L0001869    , L0001870    , L0001871    , L0001872    , L0001873    ,

        L0001874    , L0001875    , L0001876    , L0001877    , L0001878    , L0001879    , L0001880    , L0001881    ,

        L0001882    , L0001883    , L0001884    , L0001885    , L0001886    , L0001887    , L0001888    , L0001889    ,

        L0001890    , L0001891    , L0001892    , L0001893    , L0001894    , L0001895    , L0001896    , L0001897    ,

        L0001898    , L0001899    , L0001900    , L0001901    , L0001902    , L0001903    , L0001904    , L0001905    ,

        L0001906    , L0001907    , L0001908    , L0001909    , L0001910    , L0001911    , L0001912    , L0001913    ,

        L0001914    , L0001915    , L0001916    , L0001917    , L0001918    , L0001919    , L0001920    , L0001921    ,

        L0001922    , L0001923    , L0001924    , L0001925    , L0001926    , L0001927    , L0001928    , L0001929    ,

        L0001930    , L0001931    , L0001932    , L0001933    , L0001934    , L0001935    , L0001936    , L0001937    ,

        L0001938    , L0001939    , L0001940    , L0001941    , L0001942    , L0001943    , L0001944    , L0001945    ,

        L0001946    , L0001947    , L0001948    , L0001949    , L0001950    , L0001951    , L0001952    , L0001953    ,

        L0001954    , L0001955    , L0001956    , L0001957    , L0001958    , L0001959    , L0001960    , L0001961    ,

        L0001962    , L0001963    , L0001964    , L0001965    , L0001966    , L0001967    , L0001968    , L0001969    ,

        L0001970    , L0001971    , L0001972    , L0001973    , L0001974    , L0001975    , L0001976    , L0001977    ,

        L0001978    , L0001979    , L0001980    , L0001981    , L0001982    , L0001983    , L0001984    , L0001985    ,

        L0001986    , L0001987    , L0001988    , L0001989    , L0001990    , L0001991    , L0001992    , L0001993    ,

        L0001994    , L0001995    , L0001996    , L0001997    , L0001998    , L0001999    , L0002000    , L0002001    ,
```

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                       ***        21:00:06
                                                                                                                   PAGE  25
*** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN  ADJ_U*
```

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

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

```
        L0002002    , L0002003    , L0002004    , L0002005    , L0002006    , L0002007    , L0002008    , L0002009    ,

        L0002010    , L0002011    , L0002012    , L0002013    , L0002014    , L0002015    , L0002016    , L0002017    ,

        L0002018    , L0002019    , L0002020    , L0002021    , L0002022    , L0002023    , L0002024    , L0002025    ,

        L0002026    , L0002027    , L0002028    , L0002029    , L0002030    , L0002031    , L0002032    , L0002033    ,

        L0002034    , L0002035    , L0002036    , L0002037    , L0002038    , L0002039    , L0002040    , L0002041    ,

        L0002042    , L0002043    , L0002044    , L0002045    , L0002046    , L0002047    , L0002048    , L0002049    ,

        L0002050    , L0002051    , L0002052    , L0002053    , L0002054    , L0002055    , L0002056    , L0002057    ,

        L0002058    , L0002059    , L0002060    , L0002061    , L0002062    , L0002063    , L0002064    , L0002065    ,

        L0002066    , L0002067    , L0002068    , L0002069    , L0002070    , L0002071    , L0002072    , L0002073    ,

        L0002074    , L0002075    , L0002076    , L0002077    , L0002078    , L0002079    , L0002080    , L0002081    ,

        L0002082    , L0002083    , L0002084    , L0002085    , L0002086    , L0002087    , L0002088    , L0002089    ,

        L0002090    , L0002091    , L0002092    , L0002093    , L0002094    , L0002095    , L0002096    , L0002097    ,

        L0002098    , L0002099    , L0002100    , L0002101    , L0002102    , L0002103    , L0002104    , L0002105    ,

        L0002106    , L0002107    , L0002108    , L0002109    , L0002110    , L0002111    , L0002112    , L0002113    ,

        L0002114    , L0002115    , L0002116    , L0002117    , L0002118    , L0002119    , L0002120    , L0002121    ,

        L0002122    , L0002123    , L0002124    , L0002125    , L0002126    , L0002127    , L0002128    , L0002129    ,

        L0002130    ,
```

                          *** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

```
   486627.2,  486677.2,  486727.2,  486777.2,  486827.2,  486877.2,  486927.2,  486977.2,  487027.2,  487077.2,
   487127.2,  487177.2,  487227.2,  487277.2,  487327.2,  487377.2,  487427.2,  487477.2,  487527.2,  487577.2,
   487627.2,
```

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

      3765628.5, 3765678.5, 3765728.5, 3765778.5, 3765828.5, 3765878.5, 3765928.5, 3765978.5, 3766028.5, 3766078.5,
      3766128.5, 3766178.5, 3766228.5, 3766278.5, 3766328.5, 3766378.5, 3766428.5, 3766478.5, 3766528.5, 3766578.5,
      3766628.5,
```

```
 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                              ***       08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041       ***       21:00:06
                                                                                                    PAGE  27
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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


                              * ELEVATION HEIGHTS IN METERS *


      Y-COORD |                                    X-COORD (METERS)
      (METERS) |    486627.18    486677.18    486727.18    486777.18    486827.18    486877.18    486927.18    486977.18    487027.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |      544.20       545.30       544.90       547.20       550.40       554.20       558.10       558.20       556.00
   3766578.46 |      548.60       552.30       553.20       550.10       551.10       556.50       559.20       561.60       564.60
   3766528.46 |      551.20       554.10       555.80       556.00       554.60       555.90       558.90       561.50       565.40
   3766478.46 |      550.00       553.70       554.60       556.80       559.50       561.20       561.40       563.40       564.50
   3766428.46 |      549.50       550.50       551.80       552.00       554.70       560.20       564.40       563.80       558.40
   3766378.46 |      548.90       550.20       548.70       546.10       549.70       552.50       554.80       554.10       554.10
   3766328.46 |      544.90       548.20       546.60       543.30       544.40       546.10       547.80       551.20       555.30
   3766278.46 |      542.10       543.90       543.30       541.90       541.60       545.30       552.20       559.30       563.90
   3766228.46 |      538.30       539.20       540.10       539.50       543.20       548.20       554.10       560.70       569.10
   3766178.46 |      529.40       533.30       536.00       539.10       544.60       553.20       563.20       566.40       564.40
   3766128.46 |      527.10       530.90       533.50       541.80       554.20       564.90       567.50       560.40       562.80
   3766078.46 |      527.50       529.40       531.80       542.90       552.80       554.70       555.40       552.50       553.40
   3766028.46 |      530.00       531.30       532.30       534.90       540.10       543.10       546.30       547.40       550.50
   3765978.46 |      532.50       531.30       533.30       535.70       537.60       539.20       541.10       543.60       547.20
   3765928.46 |      548.90       538.10       534.90       535.70       537.80       540.00       542.10       543.80       545.10
   3765878.46 |      567.50       554.20       542.70       539.70       540.60       542.50       543.50       546.10       548.70
   3765828.46 |      573.70       561.60       549.80       553.60       558.90       551.90       555.90       560.80       572.20
   3765778.46 |      575.00       574.30       566.80       568.70       575.50       567.00       563.50       575.00       581.50
   3765728.46 |      574.40       576.50       577.70       580.90       585.60       582.20       578.20       583.70       592.00
   3765678.46 |      581.00       578.80       579.80       583.50       587.90       590.50       592.20       594.60       598.70
   3765628.46 |      589.60       588.90       582.20       586.30       591.10       593.20       594.80       596.80       601.00
```

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 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                              ***       08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041       ***       21:00:06
                                                                                                    PAGE  28
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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


                              * ELEVATION HEIGHTS IN METERS *
```

```
Y-COORD  |                                        X-COORD (METERS)
(METERS) |   487077.18   487127.18   487177.18   487227.18   487277.18   487327.18   487377.18   487427.18   487477.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3766628.46 |     554.80      556.50      560.60      564.70      566.90      568.10      569.60      572.00      574.30
3766578.46 |     564.30      560.70      560.30      564.00      568.50      571.20      572.40      574.30      576.70
3766528.46 |     568.30      568.90      567.10      565.00      566.80      572.00      574.10      576.40      579.30
3766478.46 |     564.10      568.30      570.70      570.80      568.10      570.90      574.60      577.70      582.00
3766428.46 |     557.60      561.10      565.40      571.50      573.20      575.60      578.20      581.30      590.40
3766378.46 |     560.70      563.00      569.20      576.20      580.20      585.80      591.00      592.80      592.90
3766328.46 |     562.50      569.60      572.90      582.10      590.20      594.50      592.50      596.20      599.70
3766278.46 |     566.00      574.20      585.00      589.60      595.40      589.20      584.10      589.70      591.00
3766228.46 |     573.80      578.10      588.60      582.90      585.00      581.70      577.70      581.80      582.80
3766178.46 |     572.80      579.70      582.40      577.30      577.30      574.20      573.10      577.10      583.60
3766128.46 |     570.90      571.10      576.80      571.80      569.40      569.10      571.50      578.60      588.50
3766078.46 |     557.60      562.50      570.70      565.30      565.60      567.90      571.00      574.80      581.40
3766028.46 |     553.70      556.90      561.10      559.60      561.60      568.60      580.20      581.30      579.80
3765978.46 |     550.10      554.90      558.40      557.30      563.80      572.30      580.80      593.60      598.00
3765928.46 |     547.20      550.50      556.40      557.40      570.10      584.80      590.90      598.40      611.40
3765878.46 |     548.90      550.20      555.20      554.80      562.60      576.90      580.70      594.40      605.10
3765828.46 |     570.60      560.70      555.30      554.90      557.90      563.90      574.50      586.80      602.20
3765778.46 |     590.70      580.80      565.10      558.80      557.90      560.10      566.60      580.40      601.40
3765728.46 |     594.90      582.90      569.60      562.80      559.40      560.00      562.60      566.50      576.00
3765678.46 |     600.80      595.30      579.00      569.40      567.30      562.00      561.90      564.80      567.50
3765628.46 |     602.80      597.50      580.20      575.40      577.30      575.80      564.50      564.20      566.00

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                      ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041               ***        21:00:06
                                                                                                            PAGE  29
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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


                                  * ELEVATION HEIGHTS IN METERS *

Y-COORD  |                                        X-COORD (METERS)
(METERS) |   487527.18   487577.18   487627.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3766628.46 |     575.90      577.20      579.40
3766578.46 |     578.80      580.50      582.70
3766528.46 |     581.80      583.90      586.90
3766478.46 |     585.50      588.20      593.90
3766428.46 |     596.40      591.70      600.40
3766378.46 |     600.80      599.00      598.00
3766328.46 |     598.80      603.10      602.00
3766278.46 |     593.70      594.50      605.50
3766228.46 |     586.00      589.60      596.50
3766178.46 |     591.20      596.00      594.60
3766128.46 |     598.70      603.50      608.30
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3766078.46 |      588.40         595.50         609.30
3766028.46 |      583.20         595.20         603.70
3765978.46 |      589.20         589.40         595.70
3765928.46 |      604.20         602.40         595.90
3765878.46 |      617.00         620.70         615.80
3765828.46 |      618.90         616.80         626.10
3765778.46 |      601.20         607.60         633.60
3765728.46 |      586.20         611.70         619.10
3765678.46 |      572.80         586.30         596.40
3765628.46 |      569.10         572.30         576.40
```

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

                          * HILL HEIGHT SCALES IN METERS *

```
  Y-COORD  |                                       X-COORD (METERS)
  (METERS) |   486627.18     486677.18     486727.18     486777.18     486827.18     486877.18     486927.18     486977.18     487027.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3766628.46 |      555.40        555.70        556.30        555.20        550.40        554.20        558.10        564.30        569.00
3766578.46 |      548.60        552.30        555.70        559.60        559.90        556.50        559.20        561.60        564.60
3766528.46 |      551.20        554.10        555.80        556.00        563.50        563.70        558.90        561.50        565.40
3766478.46 |      550.00        553.70        554.60        556.80        559.50        563.50        561.40        563.40        596.40
3766428.46 |      549.50        550.50        551.80        563.50        563.80        563.80        565.40        563.80        596.40
3766378.46 |      548.90        550.20        551.50        590.00        595.20        596.40        596.40        596.40        600.20
3766328.46 |      544.90        551.30        551.70        596.40        596.40        596.40        596.40        599.90        600.20
3766278.46 |      542.10        551.70        590.00        596.40        596.40        637.60        596.40        596.40        596.40
3766228.46 |      566.60        589.10        595.20        652.40        652.40        596.40        596.40        596.40        595.20
3766178.46 |      652.40        652.40        652.40        652.40        652.40        595.20        589.10        590.00        596.40
3766128.46 |      655.00        655.00        655.00        652.40        569.30        566.60        567.50        637.60        652.40
3766078.46 |      655.00        667.30        671.50        654.70        652.40        652.40        652.40        667.30        671.50
3766028.46 |      655.00        668.60        671.50        671.50        671.50        671.50        671.50        671.50        671.50
3765978.46 |      655.00        671.50        671.50        671.50        671.50        671.50        671.50        671.50        671.50
3765928.46 |      652.40        655.00        671.50        671.50        671.50        671.50        671.50        671.50        671.50
3765878.46 |      574.70        652.40        671.50        671.50        671.50        671.50        671.50        671.50        671.50
3765828.46 |      573.70        606.20        655.00        655.00        655.00        671.50        671.50        671.50        667.30
3765778.46 |      588.60        589.70        610.60        652.40        607.90        655.00        671.50        655.00        655.00
3765728.46 |      594.40        593.10        588.70        588.00        587.10        609.80        655.00        654.70        652.40
3765678.46 |      591.40        595.00        595.00        591.40        587.90        590.50        592.20        594.60        598.70
3765628.46 |      589.60        588.90        597.00        592.50        591.10        593.20        594.80        607.90        602.20
```

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

                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                    X-COORD (METERS)
    (METERS) |   487077.18    487127.18    487177.18    487227.18    487277.18    487327.18    487377.18    487427.18    487477.18
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |     596.40       596.40       596.40       564.70       566.90       601.00       609.90       616.50       616.70
   3766578.46 |     568.00       596.40       600.80       601.00       601.00       601.90       609.90       616.50       616.70
   3766528.46 |     568.30       568.90       596.40       601.90       604.20       604.20       609.90       616.50       616.70
   3766478.46 |     596.40       596.40       596.40       600.20       605.20       609.90       614.50       616.50       616.50
   3766428.46 |     600.20       600.80       601.00       600.80       601.90       604.20       606.80       609.90       604.20
   3766378.46 |     599.90       600.80       600.20       599.90       599.90       599.90       599.90       600.20       604.20
   3766328.46 |     599.90       596.40       596.40       596.40       596.40       594.50       599.90       599.90       599.70
   3766278.46 |     596.40       596.40       595.20       595.20       595.40       596.40       600.80       600.80       608.90
   3766228.46 |     595.20       596.00       588.60       596.40       596.40       637.60       650.80       650.80       660.00
   3766178.46 |     595.20       590.00       590.00       637.60       637.60       660.00       660.00       660.00       660.00
   3766128.46 |     590.00       637.60       637.60       650.80       660.00       668.60       668.60       660.00       660.00
   3766078.46 |     668.60       667.30       652.40       671.50       671.50       671.50       671.50       671.50       667.30
   3766028.46 |     671.50       671.50       671.50       671.50       671.50       671.50       668.60       668.60       671.50
   3765978.46 |     671.50       671.50       671.50       671.50       671.50       671.50       671.50       660.00       660.00
   3765928.46 |     671.50       671.50       671.50       671.50       671.50       668.60       660.00       650.80       637.60
   3765878.46 |     671.50       671.50       671.50       671.50       671.50       671.50       671.50       668.60       650.80
   3765828.46 |     671.50       671.50       671.50       671.50       671.50       671.50       671.50       671.50       668.60
   3765778.46 |     652.40       671.50       671.50       671.50       671.50       671.50       671.50       671.50       671.50
   3765728.46 |     652.40       671.50       671.50       671.50       671.50       671.50       671.50       671.50       671.50
   3765678.46 |     652.40       655.00       671.50       671.50       671.50       671.50       671.50       671.50       671.50
   3765628.46 |     652.40       655.00       671.50       671.50       671.50       671.50       671.50       671.50       671.50

 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                             ***        08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                      ***        21:00:06
                                                                                                                   PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                    X-COORD (METERS)
    (METERS) |   487527.18    487577.18    487627.18
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |     617.40       618.70       618.70
   3766578.46 |     617.40       618.70       619.50
   3766528.46 |     617.40       618.70       618.70
   3766478.46 |     617.40       617.40       617.40
   3766428.46 |     600.30       617.40       611.50
   3766378.46 |     600.80       604.20       617.40
   3766328.46 |     604.20       604.20       613.90
   3766278.46 |     627.70       632.70       608.90
```

```
3766228.46 |        660.00       660.00       635.40
3766178.46 |        650.80       649.20       660.00
3766128.46 |        637.60       632.70       632.70
3766078.46 |        660.00       660.00       632.70
3766028.46 |        671.50       660.00       660.00
3765978.46 |        669.60       671.50       667.30
3765928.46 |        660.00       660.00       671.50
3765878.46 |        637.60       637.60       660.00
3765828.46 |        637.60       650.80       637.60
3765778.46 |        671.50       671.50       637.60
3765728.46 |        671.50       671.50       667.30
3765678.46 |        671.50       671.50       671.50
3765628.46 |        671.50       671.50       671.50
```

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

```
( 486910.9, 3766071.2,    552.6,     654.1,      0.0);      ( 487071.7, 3766032.3,    553.8,    671.5,      0.0);
( 487146.1, 3766030.0,    559.4,     671.5,      0.0);      ( 487280.7, 3766020.6,    561.9,    671.5,      0.0);
( 487485.2, 3766054.5,    580.3,     669.6,      0.0);      ( 487507.5, 3765926.8,    608.6,    650.8,      0.0);
( 487080.8, 3766103.6,    563.8,     652.4,      0.0);      ( 486821.5, 3766197.7,    542.8,    652.4,      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   - - RECEPTOR LOCATION - -   DISTANCE
                    ID   XR (METERS)   YR (METERS)   (METERS)
           -

                 L0001684   487177.2   3765878.5   0.17
                 L0001714   487277.2   3765828.5   -0.82
                 L0001715   487277.2   3765828.5   -2.57
                 L0001716   487277.2   3765828.5   0.93
                 L0001745   487377.2   3765778.5   0.96
                 L0001846   486677.2   3766028.5   0.95
                 L0001847   486677.2   3766028.5   -0.76
                 L0001890   486827.2   3765978.5   0.35
                 L0001933   486977.2   3765928.5   -0.43
                 L0001934   486977.2   3765928.5   -0.21

```
                    L0002006               487227.2    3765828.5           0.43
                    L0002007               487227.2    3765828.5          -2.73
                    L0002008               487227.2    3765828.5          -0.22
                    L0002037               487327.2    3765778.5           0.42
                    L0002038               487327.2    3765778.5          -0.02
```

```
*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                 ***      21:00:06
                                                                                                            PAGE  35
*** 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 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  ***   *** Terracina at Redlands                                        ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                 ***      21:00:06
                                                                                                            PAGE  36
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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

   Surface file:   E:\New MET data\RDLD_V9_ADJU\RDLD_v9.SFC                       Met Version: 16216
   Profile file:   E:\New MET data\RDLD_V9_ADJU\RDLD_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    3171                Upper air station no.:    3190
              Name: UNKNOWN                             Name: UNKNOWN
              Year:   2012                              Year:   2012

 First 24 hours of scalar data
  YR MO DY JDY HR    H0     U*     W*   DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS    WD     HT  REF TA    HT
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01  -10.6  0.149 -9.000 -9.000 -999.  138.    26.7  0.32   3.22   1.00    1.30   110.    9.1  285.4    5.5
```

```
12 01 01   1 02    -5.0  0.102 -9.000 -9.000 -999.    78.       17.9  0.32  3.22  1.00  0.90 130.    9.1 284.5   5.5
12 01 01   1 03    -5.0  0.102 -9.000 -9.000 -999.    78.       17.9  0.32  3.22  1.00  0.90 100.    9.1 285.0   5.5
12 01 01   1 04    -5.0  0.102 -9.000 -9.000 -999.    78.       17.9  0.32  3.22  1.00  0.90 107.    9.1 284.6   5.5
12 01 01   1 05   -10.7  0.149 -9.000 -9.000 -999.   138.       26.7  0.32  3.22  1.00  1.30  98.    9.1 284.9   5.5
12 01 01   1 06    -5.0  0.102 -9.000 -9.000 -999.    78.       17.9  0.32  3.22  1.00  0.90  86.    9.1 284.5   5.5
12 01 01   1 07    -5.0  0.102 -9.000 -9.000 -999.    78.       17.9  0.32  3.22  1.00  0.90  91.    9.1 284.0   5.5
12 01 01   1 08    -4.0  0.102 -9.000 -9.000 -999.    78.       22.9  0.32  3.22  0.54  0.90 107.    9.1 285.0   5.5
12 01 01   1 09    44.6  0.237  0.382  0.006   43.   276.      -25.6  0.15  3.22  0.33  2.10  81.   10.1 289.1   5.5
12 01 01   1 10   134.3  0.111  0.882  0.008  176.    99.       -1.0  0.32  3.22  0.26  0.40  72.    9.1 295.1   5.5
12 01 01   1 11   199.8  0.409  1.429  0.005  503.   627.      -29.4  0.15  3.22  0.23  3.68  78.   10.1 297.9   5.5
12 01 01   1 12   232.3  0.300  1.889  0.005  999.   402.      -10.0  0.32  3.22  0.22  1.80 333.    9.1 299.4   5.5
12 01 01   1 13   230.0  0.300  2.134  0.005 1453.   394.      -10.1  0.32  3.22  0.22  1.80  72.    9.1 300.4   5.5
12 01 01   1 14   194.0  0.294  2.109  0.005 1663.   382.      -11.2  0.32  3.22  0.24  1.80 277.    9.1 301.0   5.5
12 01 01   1 15   126.3  0.378  1.872  0.005 1784.   557.      -36.5  0.32  3.22  0.27  2.70 243.    9.1 301.0   5.5
12 01 01   1 16    39.5  0.199  1.278  0.005 1817.   240.      -17.2  0.32  3.22  0.36  1.30 274.    9.1 300.1   5.5
12 01 01   1 17    -4.7  0.101 -9.000 -9.000 -999.    85.       19.0  0.32  3.22  0.65  0.90 252.    9.1 298.2   5.5
12 01 01   1 18    -4.9  0.102 -9.000 -9.000 -999.    78.       18.2  0.32  3.22  1.00  0.90 116.    9.1 296.4   5.5
12 01 01   1 19   -18.8  0.204 -9.000 -9.000 -999.   220.       45.6  0.15  3.22  1.00  2.27  79.   10.1 292.2   5.5
12 01 01   1 20    -5.0  0.102 -9.000 -9.000 -999.    83.       18.1  0.32  3.22  1.00  0.90  95.    9.1 290.2   5.5
12 01 01   1 21    -5.0  0.102 -9.000 -9.000 -999.    78.       18.0  0.32  3.22  1.00  0.90  99.    9.1 287.8   5.5
12 01 01   1 22    -5.0  0.102 -9.000 -9.000 -999.    78.       18.0  0.32  3.22  1.00  0.90 110.    9.1 287.6   5.5
12 01 01   1 23   -10.6  0.149 -9.000 -9.000 -999.   138.       26.8  0.32  3.22  1.00  1.30  89.    9.1 287.2   5.5
12 01 01   1 24    -5.0  0.102 -9.000 -9.000 -999.    78.       17.9  0.32  3.22  1.00  0.90 105.    9.1 285.9   5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    5.5 0 -999.  -99.00   285.5  99.0  -99.00  -99.00
12 01 01 01    9.1 1  110.    1.30  -999.0  99.0  -99.00  -99.00


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

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                               ***       08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                        ***       21:00:06
                                                                                                                    PAGE  37
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                             INCLUDING SOURCE(S):     L0001522  , L0001523  , L0001524  , L0001525  , L0001526  ,
                  L0001527  , L0001528  , L0001529  , L0001530  , L0001531  , L0001532  , L0001533  , L0001534  ,
                  L0001535  , L0001536  , L0001537  , L0001538  , L0001539  , L0001540  , L0001541  , L0001542  ,
                  L0001543  , L0001544  , L0001545  , L0001546  , L0001547  , L0001548  , L0001549  , . . .     ,

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

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

   Y-COORD  |                                          X-COORD (METERS)
   (METERS) |    486627.18    486677.18    486727.18    486777.18    486827.18    486877.18    486927.18    486977.18    487027.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

Apx - 255

```
3766628.46 |    0.00453     0.00465     0.00480     0.00482     0.00476     0.00462     0.00443     0.00446     0.00460
3766578.46 |    0.00480     0.00477     0.00487     0.00521     0.00526     0.00497     0.00484     0.00471     0.00451
3766528.46 |    0.00517     0.00518     0.00524     0.00538     0.00562     0.00561     0.00544     0.00526     0.00495
3766478.46 |    0.00588     0.00585     0.00600     0.00598     0.00587     0.00582     0.00588     0.00573     0.00564
3766428.46 |    0.00670     0.00697     0.00713     0.00736     0.00724     0.00672     0.00632     0.00644     0.00708
3766378.46 |    0.00776     0.00807     0.00867     0.00931     0.00909     0.00886     0.00862     0.00873     0.00869
3766328.46 |    0.00963     0.00982     0.01062     0.01147     0.01156     0.01144     0.01121     0.01067     0.00995
3766278.46 |    0.01207     0.01279     0.01364     0.01429     0.01449     0.01401     0.01266     0.01105     0.01001
3766228.46 |    0.01588     0.01736     0.01819     0.01865     0.01810     0.01682     0.01500     0.01295     0.01071
3766178.46 |    0.02278     0.02546     0.02611     0.02549     0.02359     0.01959     0.01524     0.01405     0.01455
3766128.46 |    0.03935     0.04396     0.04217     0.03706     0.02622     0.01952     0.01801     0.02104     0.01934
3766078.46 |    0.35593     0.13454     0.09236     0.06550     0.04318     0.03823     0.03555     0.03636     0.03334
3766028.46 |    0.18613     0.38075     0.32449     0.39482     0.15106     0.10197     0.07772     0.06434     0.05355
3765978.46 |    0.05007     0.07665     0.11709     0.22690     0.44592     0.33169     0.38574     0.15411     0.10433
3765928.46 |    0.02361     0.03969     0.05216     0.06701     0.08898     0.12770     0.23430     0.39179     0.41676
3765878.46 |    0.01265     0.01987     0.03212     0.03992     0.04782     0.05760     0.07127     0.09168     0.12974
3765828.46 |    0.00963     0.01358     0.02140     0.02299     0.02338     0.03364     0.03645     0.03815     0.03458
3765778.46 |    0.00803     0.00915     0.01184     0.01294     0.01297     0.01755     0.02226     0.01964     0.02101
3765728.46 |    0.00712     0.00765     0.00835     0.00884     0.00926     0.01080     0.01294     0.01343     0.01422
3765678.46 |    0.00571     0.00651     0.00704     0.00729     0.00752     0.00801     0.00866     0.00936     0.00995
3765628.46 |    0.00449     0.00493     0.00601     0.00609     0.00615     0.00649     0.00692     0.00734     0.00755
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0001522    , L0001523    , L0001524    , L0001525   , L0001526    ,
                  L0001527    , L0001528    , L0001529    , L0001530    , L0001531    , L0001532    , L0001533   , L0001534    ,
                  L0001535    , L0001536    , L0001537    , L0001538    , L0001539    , L0001540    , L0001541   , L0001542    ,
                  L0001543    , L0001544    , L0001545    , L0001546    , L0001547    , L0001548    , L0001549   , . . .       ,

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

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

     Y-COORD |                                            X-COORD (METERS)
    (METERS) |    487077.18    487127.18    487177.18    487227.18    487277.18    487327.18    487377.18    487427.18    487477.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  3766628.46 |    0.00466     0.00454     0.00427     0.00399     0.00381     0.00368     0.00353     0.00333     0.00313
  3766578.46 |    0.00453     0.00476     0.00474     0.00444     0.00409     0.00385     0.00370     0.00350     0.00328
  3766528.46 |    0.00473     0.00466     0.00476     0.00485     0.00464     0.00419     0.00395     0.00370     0.00342
  3766478.46 |    0.00567     0.00526     0.00499     0.00492     0.00506     0.00473     0.00433     0.00399     0.00357
  3766428.46 |    0.00712     0.00668     0.00614     0.00544     0.00518     0.00485     0.00450     0.00412     0.00331
  3766378.46 |    0.00777     0.00738     0.00653     0.00561     0.00509     0.00443     0.00386     0.00361     0.00349
  3766328.46 |    0.00870     0.00752     0.00695     0.00566     0.00467     0.00417     0.00421     0.00377     0.00340
  3766278.46 |    0.00952     0.00795     0.00626     0.00556     0.00482     0.00531     0.00574     0.00490     0.00458
  3766228.46 |    0.00958     0.00863     0.00681     0.00746     0.00695     0.00722     0.00758     0.00669     0.00627
  3766178.46 |    0.01186     0.01004     0.00925     0.01002     0.00971     0.01000     0.00979     0.00863     0.00718
```

```
3766128.46 |      0.01554      0.01506      0.01284      0.01388      0.01405      0.01346      0.01217      0.00999      0.00764
3766078.46 |      0.02866      0.02422      0.01896      0.02045      0.01914      0.01720      0.01516      0.01317      0.01077
3766028.46 |      0.04519      0.03851      0.03241      0.03043      0.02687      0.02182      0.01572      0.01432      0.01374
3765978.46 |      0.07943      0.06224      0.05054      0.04445      0.03567      0.02675      0.02010      0.01409      0.01183
3765928.46 |      0.26540      0.13357      0.09120      0.07028      0.04513      0.02765      0.02181      0.01705      0.01280
3765878.46 |      0.24575      0.55491      0.45998      0.15725      0.09449      0.04993      0.03861      0.02488      0.01829
3765828.46 |      0.04500      0.08640      0.17040      0.34229      0.34062      0.14989      0.07597      0.04298      0.02653
3765778.46 |      0.02425      0.03051      0.05826      0.09397      0.16395      0.39399      0.40892      0.09864      0.04296
3765728.46 |      0.01613      0.02070      0.03459      0.05073      0.06827      0.09889      0.20202      0.34351      0.31689
3765678.46 |      0.01091      0.01332      0.02031      0.03145      0.04018      0.05288      0.06929      0.10310      0.22961
3765628.46 |      0.00812      0.00985      0.01593      0.02091      0.02350      0.02951      0.04172      0.05105      0.06629
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL      ***
                          INCLUDING SOURCE(S):    L0001522   , L0001523   , L0001524   , L0001525   , L0001526   ,
            L0001527   , L0001528   , L0001529   , L0001530   , L0001531   , L0001532   , L0001533   , L0001534   ,
            L0001535   , L0001536   , L0001537   , L0001538   , L0001539   , L0001540   , L0001541   , L0001542   ,
            L0001543   , L0001544   , L0001545   , L0001546   , L0001547   , L0001548   , L0001549   , . . .      ,
```

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

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

```
   Y-COORD   |                                                X-COORD (METERS)
   (METERS)  |    487527.18    487577.18    487627.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |      0.00297      0.00283      0.00265
   3766578.46 |      0.00308      0.00290      0.00270
   3766528.46 |      0.00317      0.00296      0.00269
   3766478.46 |      0.00323      0.00295      0.00253
   3766428.46 |      0.00283      0.00301      0.00243
   3766378.46 |      0.00287      0.00286      0.00280
   3766328.46 |      0.00332      0.00294      0.00287
   3766278.46 |      0.00415      0.00390      0.00301
   3766228.46 |      0.00560      0.00491      0.00402
   3766178.46 |      0.00577      0.00493      0.00479
   3766128.46 |      0.00582      0.00502      0.00436
   3766078.46 |      0.00865      0.00692      0.00510
   3766028.46 |      0.01181      0.00840      0.00663
   3765978.46 |      0.01283      0.01161      0.00920
   3765928.46 |      0.01231      0.01121      0.01117
   3765878.46 |      0.01398      0.01170      0.01053
   3765828.46 |      0.01867      0.01566      0.01235
   3765778.46 |      0.03223      0.02327      0.01565
   3765728.46 |      0.08855      0.03553      0.02365
   3765678.46 |      0.32326      0.18722      0.05269
```

```
     3765628.46  |       0.09942      0.25969      0.23051


     *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***      08/11/21
     *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                 ***      21:00:06
                                                                                                                PAGE  40
     *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL    ***
                                    INCLUDING SOURCE(S):    L0001522    , L0001523    , L0001524    , L0001525    , L0001526    ,
                      L0001527    , L0001528    , L0001529    , L0001530    , L0001531    , L0001532    , L0001533    , L0001534    ,
                      L0001535    , L0001536    , L0001537    , L0001538    , L0001539    , L0001540    , L0001541    , L0001542    ,
                      L0001543    , L0001544    , L0001545    , L0001546    , L0001547    , L0001548    , L0001549    , . . .       ,

                                       *** 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
     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
           486910.88    3766071.19      0.04218                  487071.68    3766032.30      0.04421
           487146.10    3766029.99      0.03500                  487280.73    3766020.65      0.02782
           487485.24    3766054.47      0.01201                  487507.54    3765926.79      0.01233
           487080.82    3766103.59      0.02100                  486821.49    3766197.66      0.02154

     *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***      08/11/21
     *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041                 ***      21:00:06
                                                                                                                PAGE  41
     *** 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     0.55491 AT (  487127.18,  3765878.46,    550.20,    671.50,    0.00)  GC  UCART1
              2ND HIGHEST VALUE IS     0.45998 AT (  487177.18,  3765878.46,    555.20,    671.50,    0.00)  GC  UCART1
              3RD HIGHEST VALUE IS     0.44592 AT (  486827.18,  3765978.46,    537.60,    671.50,    0.00)  GC  UCART1
              4TH HIGHEST VALUE IS     0.41676 AT (  487027.18,  3765928.46,    545.10,    671.50,    0.00)  GC  UCART1
              5TH HIGHEST VALUE IS     0.40892 AT (  487377.18,  3765778.46,    566.60,    671.50,    0.00)  GC  UCART1
              6TH HIGHEST VALUE IS     0.39482 AT (  486777.18,  3766028.46,    534.90,    671.50,    0.00)  GC  UCART1
              7TH HIGHEST VALUE IS     0.39399 AT (  487327.18,  3765778.46,    560.10,    671.50,    0.00)  GC  UCART1
              8TH HIGHEST VALUE IS     0.39179 AT (  486977.18,  3765928.46,    543.80,    671.50,    0.00)  GC  UCART1
              9TH HIGHEST VALUE IS     0.38574 AT (  486927.18,  3765978.46,    541.10,    671.50,    0.00)  GC  UCART1
             10TH HIGHEST VALUE IS     0.38075 AT (  486677.18,  3766028.46,    531.30,    668.60,    0.00)  GC  UCART1


     *** RECEPTOR TYPES:  GC = GRIDCART
```

```
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                              ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2028-2041       ***        21:00:06
                                                                                                    PAGE  42
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

A Total of          0 Fatal Error Message(s)
A Total of          2 Warning Message(s)
A Total of        388 Informational Message(s)


A Total of      43848 Hours Were Processed


A Total of        191 Calm Hours Identified


A Total of        197 Missing Hours Identified (  0.45 Percent)



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



    ********   WARNING MESSAGES   ********
ME W186    1339       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
ME W187    1339       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.1
** Lakes Environmental Software Inc.
** Date: 8/11/2021
** File: C:\Lakes\AERMOD View\Terracina at Redlands 2042-2055\Terracina at Redlands 2042-2055.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE Terracina at Redlands
   TITLETWO Freeway-related DPM Concentrations 2042-2055
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "Terracina at Redlands 2042-2055.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC EB 10 freeway
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00107
** Elevated
** Vertical Dimension = 3.66
** SZINIT = 0.85
** Nodes = 12
** 486616.041, 3766076.797, 526.82, 0.00, 1.70
** 486786.952, 3766018.704, 535.73, 0.00, 1.70
```

```
**  486896.402, 3765982.502, 539.74, 0.00, 1.70
**  487020.166, 3765938.721, 544.37, 0.00, 1.70
**  487127.090, 3765896.625, 550.05, 0.00, 1.70
**  487255.905, 3765839.374, 556.47, 0.00, 1.70
**  487365.355, 3765779.597, 565.73, 0.00, 1.70
**  487442.813, 3765739.185, 575.21, 0.00, 1.70
**  487518.586, 3765698.772, 574.32, 0.00, 1.70
**  487573.311, 3765669.305, 575.18, 0.00, 1.70
**  487609.514, 3765647.415, 578.30, 0.00, 1.70
**  487635.614, 3765634.786, 578.12, 0.00, 1.70
** ------------------------------------------------------------------
    LOCATION L0002131    VOLUME    486617.773 3766076.209 527.35
    LOCATION L0002132    VOLUME    486621.236 3766075.032 527.48
    LOCATION L0002133    VOLUME    486624.699 3766073.855 527.61
    LOCATION L0002134    VOLUME    486628.162 3766072.678 527.73
    LOCATION L0002135    VOLUME    486631.625 3766071.500 527.88
    LOCATION L0002136    VOLUME    486635.088 3766070.323 528.02
    LOCATION L0002137    VOLUME    486638.551 3766069.146 528.14
    LOCATION L0002138    VOLUME    486642.014 3766067.969 528.26
    LOCATION L0002139    VOLUME    486645.477 3766066.792 528.37
    LOCATION L0002140    VOLUME    486648.940 3766065.615 528.47
    LOCATION L0002141    VOLUME    486652.403 3766064.438 528.55
    LOCATION L0002142    VOLUME    486655.866 3766063.261 528.67
    LOCATION L0002143    VOLUME    486659.329 3766062.084 528.80
    LOCATION L0002144    VOLUME    486662.792 3766060.907 528.97
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    LOCATION L0002147    VOLUME    486673.181 3766057.375 529.54
    LOCATION L0002148    VOLUME    486676.644 3766056.198 529.73
    LOCATION L0002149    VOLUME    486680.107 3766055.021 529.91
    LOCATION L0002150    VOLUME    486683.570 3766053.844 530.11
    LOCATION L0002151    VOLUME    486687.033 3766052.667 530.30
    LOCATION L0002152    VOLUME    486690.496 3766051.490 530.48
    LOCATION L0002153    VOLUME    486693.959 3766050.313 530.66
    LOCATION L0002154    VOLUME    486697.422 3766049.136 530.83
    LOCATION L0002155    VOLUME    486700.885 3766047.959 530.99
    LOCATION L0002156    VOLUME    486704.348 3766046.782 531.15
    LOCATION L0002157    VOLUME    486707.811 3766045.605 531.33
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    LOCATION L0002159    VOLUME    486714.737 3766043.250 531.68
    LOCATION L0002160    VOLUME    486718.200 3766042.073 531.84
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    LOCATION L0002162    VOLUME    486725.126 3766039.719 532.11
    LOCATION L0002163    VOLUME    486728.589 3766038.542 532.23
    LOCATION L0002164    VOLUME    486732.052 3766037.365 532.42
    LOCATION L0002165    VOLUME    486735.515 3766036.188 532.65
    LOCATION L0002166    VOLUME    486738.978 3766035.011 532.84
    LOCATION L0002167    VOLUME    486742.441 3766033.834 532.99
    LOCATION L0002168    VOLUME    486745.904 3766032.657 533.10
    LOCATION L0002169    VOLUME    486749.367 3766031.480 533.16
    LOCATION L0002170    VOLUME    486752.830 3766030.302 533.23
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LOCATION L0002172    VOLUME    486759.756 3766027.948 533.73
LOCATION L0002173    VOLUME    486763.219 3766026.771 534.01
LOCATION L0002174    VOLUME    486766.682 3766025.594 534.27
LOCATION L0002175    VOLUME    486770.145 3766024.417 534.53
LOCATION L0002176    VOLUME    486773.608 3766023.240 534.77
LOCATION L0002177    VOLUME    486777.071 3766022.063 534.99
LOCATION L0002178    VOLUME    486780.534 3766020.886 535.21
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LOCATION L0002180    VOLUME    486787.462 3766018.536 535.70
LOCATION L0002181    VOLUME    486790.934 3766017.387 535.92
LOCATION L0002182    VOLUME    486794.407 3766016.239 536.12
LOCATION L0002183    VOLUME    486797.880 3766015.090 536.31
LOCATION L0002184    VOLUME    486801.352 3766013.941 536.47
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LOCATION L0002191    VOLUME    486825.660 3766005.901 537.14
LOCATION L0002192    VOLUME    486829.133 3766004.752 537.14
LOCATION L0002193    VOLUME    486832.605 3766003.604 537.12
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LOCATION L0002197    VOLUME    486846.496 3765999.009 537.15
LOCATION L0002198    VOLUME    486849.968 3765997.861 537.35
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LOCATION L0002202    VOLUME    486863.858 3765993.266 538.18
LOCATION L0002203    VOLUME    486867.331 3765992.118 538.40
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LOCATION L0002205    VOLUME    486874.276 3765989.820 538.81
LOCATION L0002206    VOLUME    486877.749 3765988.672 539.00
LOCATION L0002207    VOLUME    486881.221 3765987.523 539.18
LOCATION L0002208    VOLUME    486884.694 3765986.374 539.36
LOCATION L0002209    VOLUME    486888.166 3765985.226 539.56
LOCATION L0002210    VOLUME    486891.639 3765984.077 539.74
LOCATION L0002211    VOLUME    486895.111 3765982.929 539.91
LOCATION L0002212    VOLUME    486898.569 3765981.735 540.06
LOCATION L0002213    VOLUME    486902.017 3765980.516 540.20
LOCATION L0002214    VOLUME    486905.465 3765979.296 540.32
LOCATION L0002215    VOLUME    486908.913 3765978.076 540.42
LOCATION L0002216    VOLUME    486912.362 3765976.856 540.51
LOCATION L0002217    VOLUME    486915.810 3765975.636 540.59
LOCATION L0002218    VOLUME    486919.258 3765974.417 540.66
LOCATION L0002219    VOLUME    486922.706 3765973.197 540.71
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LOCATION L0002221    VOLUME    486929.603 3765970.757 540.79
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LOCATION L0002222    VOLUME    486933.051 3765969.538 540.82
LOCATION L0002223    VOLUME    486936.499 3765968.318 540.90
LOCATION L0002224    VOLUME    486939.947 3765967.098 541.11
LOCATION L0002225    VOLUME    486943.396 3765965.878 541.31
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LOCATION L0002228    VOLUME    486953.740 3765962.219 541.89
LOCATION L0002229    VOLUME    486957.188 3765960.999 542.08
LOCATION L0002230    VOLUME    486960.637 3765959.779 542.26
LOCATION L0002231    VOLUME    486964.085 3765958.560 542.47
LOCATION L0002232    VOLUME    486967.533 3765957.340 542.67
LOCATION L0002233    VOLUME    486970.981 3765956.120 542.86
LOCATION L0002234    VOLUME    486974.429 3765954.900 543.03
LOCATION L0002235    VOLUME    486977.878 3765953.680 543.20
LOCATION L0002236    VOLUME    486981.326 3765952.461 543.36
LOCATION L0002237    VOLUME    486984.774 3765951.241 543.51
LOCATION L0002238    VOLUME    486988.222 3765950.021 543.66
LOCATION L0002239    VOLUME    486991.671 3765948.801 543.80
LOCATION L0002240    VOLUME    486995.119 3765947.582 543.93
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LOCATION L0002244    VOLUME    487008.912 3765942.702 544.30
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LOCATION L0002246    VOLUME    487015.808 3765940.263 544.42
LOCATION L0002247    VOLUME    487019.256 3765939.043 544.47
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LOCATION L0002254    VOLUME    487043.091 3765929.696 545.62
LOCATION L0002255    VOLUME    487046.495 3765928.356 545.82
LOCATION L0002256    VOLUME    487049.898 3765927.016 546.02
LOCATION L0002257    VOLUME    487053.301 3765925.676 546.21
LOCATION L0002258    VOLUME    487056.705 3765924.336 546.39
LOCATION L0002259    VOLUME    487060.108 3765922.996 546.56
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LOCATION L0002261    VOLUME    487066.915 3765920.316 546.89
LOCATION L0002262    VOLUME    487070.318 3765918.976 547.04
LOCATION L0002263    VOLUME    487073.721 3765917.636 547.18
LOCATION L0002264    VOLUME    487077.125 3765916.297 547.30
LOCATION L0002265    VOLUME    487080.528 3765914.957 547.40
LOCATION L0002266    VOLUME    487083.931 3765913.617 547.49
LOCATION L0002267    VOLUME    487087.335 3765912.277 547.57
LOCATION L0002268    VOLUME    487090.738 3765910.937 547.63
LOCATION L0002269    VOLUME    487094.142 3765909.597 547.69
LOCATION L0002270    VOLUME    487097.545 3765908.257 547.73
LOCATION L0002271    VOLUME    487100.948 3765906.917 547.76
LOCATION L0002272    VOLUME    487104.352 3765905.577 547.90
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LOCATION L0002273      VOLUME    487107.755 3765904.237 548.04
LOCATION L0002274      VOLUME    487111.158 3765902.898 548.19
LOCATION L0002275      VOLUME    487114.562 3765901.558 548.34
LOCATION L0002276      VOLUME    487117.965 3765900.218 548.57
LOCATION L0002277      VOLUME    487121.368 3765898.878 548.80
LOCATION L0002278      VOLUME    487124.772 3765897.538 549.03
LOCATION L0002279      VOLUME    487128.155 3765896.152 549.25
LOCATION L0002280      VOLUME    487131.498 3765894.666 549.47
LOCATION L0002281      VOLUME    487134.840 3765893.181 549.68
LOCATION L0002282      VOLUME    487138.183 3765891.695 549.88
LOCATION L0002283      VOLUME    487141.525 3765890.210 550.20
LOCATION L0002284      VOLUME    487144.867 3765888.724 550.76
LOCATION L0002285      VOLUME    487148.210 3765887.239 551.30
LOCATION L0002286      VOLUME    487151.552 3765885.753 551.81
LOCATION L0002287      VOLUME    487154.894 3765884.268 552.29
LOCATION L0002288      VOLUME    487158.237 3765882.782 552.76
LOCATION L0002289      VOLUME    487161.579 3765881.297 553.19
LOCATION L0002290      VOLUME    487164.921 3765879.811 553.61
LOCATION L0002291      VOLUME    487168.264 3765878.326 554.01
LOCATION L0002292      VOLUME    487171.606 3765876.840 554.42
LOCATION L0002293      VOLUME    487174.948 3765875.355 554.80
LOCATION L0002294      VOLUME    487178.291 3765873.869 555.12
LOCATION L0002295      VOLUME    487181.633 3765872.384 555.41
LOCATION L0002296      VOLUME    487184.976 3765870.898 555.68
LOCATION L0002297      VOLUME    487188.318 3765869.413 555.92
LOCATION L0002298      VOLUME    487191.660 3765867.927 556.14
LOCATION L0002299      VOLUME    487195.003 3765866.442 555.75
LOCATION L0002300      VOLUME    487198.345 3765864.956 555.39
LOCATION L0002301      VOLUME    487201.687 3765863.471 555.07
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC WB 10 freeway
** PREFIX
** Length of Side = 3.66
** Configuration = Adjacent
** Emission Rate = 0.00107
** Elevated
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LOCATION L0002593     VOLUME     487150.150 3765863.123 551.99
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LOCATION L0002595     VOLUME     487156.828 3765860.137 552.47
LOCATION L0002596     VOLUME     487160.167 3765858.644 552.65
LOCATION L0002597     VOLUME     487163.506 3765857.151 552.81
LOCATION L0002598     VOLUME     487166.845 3765855.658 552.95
LOCATION L0002599     VOLUME     487170.184 3765854.164 553.13
LOCATION L0002600     VOLUME     487173.523 3765852.671 553.27
LOCATION L0002601     VOLUME     487176.862 3765851.178 553.40
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LOCATION L0002605      VOLUME      487190.218 3765845.205 553.61
LOCATION L0002606      VOLUME      487193.557 3765843.712 553.79
LOCATION L0002607      VOLUME      487196.890 3765842.208 553.92
LOCATION L0002608      VOLUME      487200.180 3765840.610 554.05
LOCATION L0002609      VOLUME      487203.471 3765839.012 554.16
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LOCATION L0002612      VOLUME      487213.341 3765834.220 554.42
LOCATION L0002613      VOLUME      487216.632 3765832.622 554.48
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** Source Parameters **
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SRCPARAM L0002598        0.00000352        0.00        1.70        0.85
SRCPARAM L0002599        0.00000352        0.00        1.70        0.85
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SRCPARAM L0002650      0.00000352      0.00      1.70      0.85
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SRCPARAM L0002680      0.00000352       0.00      1.70      0.85
SRCPARAM L0002681      0.00000352       0.00      1.70      0.85
SRCPARAM L0002682      0.00000352       0.00      1.70      0.85
SRCPARAM L0002683      0.00000352       0.00      1.70      0.85
SRCPARAM L0002684      0.00000352       0.00      1.70      0.85
SRCPARAM L0002685      0.00000352       0.00      1.70      0.85
SRCPARAM L0002686      0.00000352       0.00      1.70      0.85
SRCPARAM L0002687      0.00000352       0.00      1.70      0.85
SRCPARAM L0002688      0.00000352       0.00      1.70      0.85
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SRCPARAM L0002699      0.00000352       0.00      1.70      0.85
SRCPARAM L0002700      0.00000352       0.00      1.70      0.85
SRCPARAM L0002701      0.00000352       0.00      1.70      0.85
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    SRCPARAM L0002719        0.00000352        0.00        1.70        0.85
    SRCPARAM L0002720        0.00000352        0.00        1.70        0.85
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    SRCPARAM L0002729        0.00000352        0.00        1.70        0.85
    SRCPARAM L0002730        0.00000352        0.00        1.70        0.85
    SRCPARAM L0002731        0.00000352        0.00        1.70        0.85
    SRCPARAM L0002732        0.00000352        0.00        1.70        0.85
    SRCPARAM L0002733        0.00000352        0.00        1.70        0.85
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    SRCPARAM L0002738        0.00000352        0.00        1.70        0.85
    SRCPARAM L0002739        0.00000352        0.00        1.70        0.85
** -----------------------------------------------------------------
    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
    INCLUDED "Terracina at Redlands 2042-2055.rou"
RE FINISHED
```

```
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
    SURFFILE "E:\New MET data\RDLD_V9_ADJU\RDLD_v9.SFC"
    PROFFILE "E:\New MET data\RDLD_V9_ADJU\RDLD_v9.PFL"
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    SITEDATA 99999 2012
    PROFBASE 481.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
    PLOTFILE PERIOD ALL "TERRACINA AT REDLANDS 2042-2055.AD\PE00GALL.PLT" 31
    SUMMFILE "Terracina at Redlands 2042-2055.sum"
OU FINISHED


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

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

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of          0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W186    1339       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187    1339       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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


 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***        08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                 ***        22:23:47
```

*** 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   609 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   2035210.0 ; 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: 609 Source(s);   1 Source Group(s); and   449 Receptor(s)

                with: 0 POINT(s), including
                           0 POINTCAP(s) and   0 POINTHOR(s)
                and: 609 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) =   481.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.8 MB of RAM.

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

**Detailed Error/Message File: Terracina at Redlands 2042-2055.err
**File for Summary of Results: Terracina at Redlands 2042-2055.sum

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2042-2055   ***   22:23:47
                                                                                                                    PAGE   2
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

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

  L0002131   0   0.35080E-05 486617.8 3766076.2   527.3   0.00   1.70   0.85   YES
  L0002132   0   0.35080E-05 486621.2 3766075.0   527.5   0.00   1.70   0.85   YES
  L0002133   0   0.35080E-05 486624.7 3766073.9   527.6   0.00   1.70   0.85   YES
  L0002134   0   0.35080E-05 486628.2 3766072.7   527.7   0.00   1.70   0.85   YES
  L0002135   0   0.35080E-05 486631.6 3766071.5   527.9   0.00   1.70   0.85   YES
  L0002136   0   0.35080E-05 486635.1 3766070.3   528.0   0.00   1.70   0.85   YES
  L0002137   0   0.35080E-05 486638.6 3766069.1   528.1   0.00   1.70   0.85   YES
  L0002138   0   0.35080E-05 486642.0 3766068.0   528.3   0.00   1.70   0.85   YES
  L0002139   0   0.35080E-05 486645.5 3766066.8   528.4   0.00   1.70   0.85   YES
  L0002140   0   0.35080E-05 486648.9 3766065.6   528.5   0.00   1.70   0.85   YES
  L0002141   0   0.35080E-05 486652.4 3766064.4   528.5   0.00   1.70   0.85   YES
  L0002142   0   0.35080E-05 486655.9 3766063.3   528.7   0.00   1.70   0.85   YES
  L0002143   0   0.35080E-05 486659.3 3766062.1   528.8   0.00   1.70   0.85   YES
  L0002144   0   0.35080E-05 486662.8 3766060.9   529.0   0.00   1.70   0.85   YES
  L0002145   0   0.35080E-05 486666.3 3766059.7   529.2   0.00   1.70   0.85   YES
  L0002146   0   0.35080E-05 486669.7 3766058.6   529.4   0.00   1.70   0.85   YES

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L0002147        0   0.35080E-05   486673.2 3766057.4   529.5   0.00    1.70    0.85    YES
L0002148        0   0.35080E-05   486676.6 3766056.2   529.7   0.00    1.70    0.85    YES
L0002149        0   0.35080E-05   486680.1 3766055.0   529.9   0.00    1.70    0.85    YES
L0002150        0   0.35080E-05   486683.6 3766053.8   530.1   0.00    1.70    0.85    YES
L0002151        0   0.35080E-05   486687.0 3766052.7   530.3   0.00    1.70    0.85    YES
L0002152        0   0.35080E-05   486690.5 3766051.5   530.5   0.00    1.70    0.85    YES
L0002153        0   0.35080E-05   486694.0 3766050.3   530.7   0.00    1.70    0.85    YES
L0002154        0   0.35080E-05   486697.4 3766049.1   530.8   0.00    1.70    0.85    YES
L0002155        0   0.35080E-05   486700.9 3766048.0   531.0   0.00    1.70    0.85    YES
L0002156        0   0.35080E-05   486704.3 3766046.8   531.1   0.00    1.70    0.85    YES
L0002157        0   0.35080E-05   486707.8 3766045.6   531.3   0.00    1.70    0.85    YES
L0002158        0   0.35080E-05   486711.3 3766044.4   531.5   0.00    1.70    0.85    YES
L0002159        0   0.35080E-05   486714.7 3766043.2   531.7   0.00    1.70    0.85    YES
L0002160        0   0.35080E-05   486718.2 3766042.1   531.8   0.00    1.70    0.85    YES
L0002161        0   0.35080E-05   486721.7 3766040.9   532.0   0.00    1.70    0.85    YES
L0002162        0   0.35080E-05   486725.1 3766039.7   532.1   0.00    1.70    0.85    YES
L0002163        0   0.35080E-05   486728.6 3766038.5   532.2   0.00    1.70    0.85    YES
L0002164        0   0.35080E-05   486732.1 3766037.4   532.4   0.00    1.70    0.85    YES
L0002165        0   0.35080E-05   486735.5 3766036.2   532.6   0.00    1.70    0.85    YES
L0002166        0   0.35080E-05   486739.0 3766035.0   532.8   0.00    1.70    0.85    YES
L0002167        0   0.35080E-05   486742.4 3766033.8   533.0   0.00    1.70    0.85    YES
L0002168        0   0.35080E-05   486745.9 3766032.7   533.1   0.00    1.70    0.85    YES
L0002169        0   0.35080E-05   486749.4 3766031.5   533.2   0.00    1.70    0.85    YES
L0002170        0   0.35080E-05   486752.8 3766030.3   533.2   0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2042-2055   ***   22:23:47
                                                                                                                          PAGE   3
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

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


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L0002171        0   0.35080E-05   486756.3 3766029.1   533.4   0.00    1.70    0.85    YES
L0002172        0   0.35080E-05   486759.8 3766027.9   533.7   0.00    1.70    0.85    YES
L0002173        0   0.35080E-05   486763.2 3766026.8   534.0   0.00    1.70    0.85    YES
L0002174        0   0.35080E-05   486766.7 3766025.6   534.3   0.00    1.70    0.85    YES
L0002175        0   0.35080E-05   486770.1 3766024.4   534.5   0.00    1.70    0.85    YES
L0002176        0   0.35080E-05   486773.6 3766023.2   534.8   0.00    1.70    0.85    YES
L0002177        0   0.35080E-05   486777.1 3766022.1   535.0   0.00    1.70    0.85    YES
L0002178        0   0.35080E-05   486780.5 3766020.9   535.2   0.00    1.70    0.85    YES
L0002179        0   0.35080E-05   486784.0 3766019.7   535.4   0.00    1.70    0.85    YES
L0002180        0   0.35080E-05   486787.5 3766018.5   535.7   0.00    1.70    0.85    YES
L0002181        0   0.35080E-05   486790.9 3766017.4   535.9   0.00    1.70    0.85    YES
L0002182        0   0.35080E-05   486794.4 3766016.2   536.1   0.00    1.70    0.85    YES
L0002183        0   0.35080E-05   486797.9 3766015.1   536.3   0.00    1.70    0.85    YES
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L0002184           0   0.35080E-05   486801.4 3766013.9    536.5      0.00      1.70      0.85      YES
L0002185           0   0.35080E-05   486804.8 3766012.8    536.6      0.00      1.70      0.85      YES
L0002186           0   0.35080E-05   486808.3 3766011.6    536.7      0.00      1.70      0.85      YES
L0002187           0   0.35080E-05   486811.8 3766010.5    536.9      0.00      1.70      0.85      YES
L0002188           0   0.35080E-05   486815.2 3766009.3    537.0      0.00      1.70      0.85      YES
L0002189           0   0.35080E-05   486818.7 3766008.2    537.1      0.00      1.70      0.85      YES
L0002190           0   0.35080E-05   486822.2 3766007.0    537.1      0.00      1.70      0.85      YES
L0002191           0   0.35080E-05   486825.7 3766005.9    537.1      0.00      1.70      0.85      YES
L0002192           0   0.35080E-05   486829.1 3766004.8    537.1      0.00      1.70      0.85      YES
L0002193           0   0.35080E-05   486832.6 3766003.6    537.1      0.00      1.70      0.85      YES
L0002194           0   0.35080E-05   486836.1 3766002.5    537.1      0.00      1.70      0.85      YES
L0002195           0   0.35080E-05   486839.5 3766001.3    537.1      0.00      1.70      0.85      YES
L0002196           0   0.35080E-05   486843.0 3766000.2    537.0      0.00      1.70      0.85      YES
L0002197           0   0.35080E-05   486846.5 3765999.0    537.1      0.00      1.70      0.85      YES
L0002198           0   0.35080E-05   486850.0 3765997.9    537.3      0.00      1.70      0.85      YES
L0002199           0   0.35080E-05   486853.4 3765996.7    537.5      0.00      1.70      0.85      YES
L0002200           0   0.35080E-05   486856.9 3765995.6    537.7      0.00      1.70      0.85      YES
L0002201           0   0.35080E-05   486860.4 3765994.4    537.9      0.00      1.70      0.85      YES
L0002202           0   0.35080E-05   486863.9 3765993.3    538.2      0.00      1.70      0.85      YES
L0002203           0   0.35080E-05   486867.3 3765992.1    538.4      0.00      1.70      0.85      YES
L0002204           0   0.35080E-05   486870.8 3765991.0    538.6      0.00      1.70      0.85      YES
L0002205           0   0.35080E-05   486874.3 3765989.8    538.8      0.00      1.70      0.85      YES
L0002206           0   0.35080E-05   486877.7 3765988.7    539.0      0.00      1.70      0.85      YES
L0002207           0   0.35080E-05   486881.2 3765987.5    539.2      0.00      1.70      0.85      YES
L0002208           0   0.35080E-05   486884.7 3765986.4    539.4      0.00      1.70      0.85      YES
L0002209           0   0.35080E-05   486888.2 3765985.2    539.6      0.00      1.70      0.85      YES
L0002210           0   0.35080E-05   486891.6 3765984.1    539.7      0.00      1.70      0.85      YES
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*** 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
L0002211	0	0.35080E-05	486895.1	3765982.9	539.9	0.00	1.70	0.85	YES	
L0002212	0	0.35080E-05	486898.6	3765981.7	540.1	0.00	1.70	0.85	YES	
L0002213	0	0.35080E-05	486902.0	3765980.5	540.2	0.00	1.70	0.85	YES	
L0002214	0	0.35080E-05	486905.5	3765979.3	540.3	0.00	1.70	0.85	YES	
L0002215	0	0.35080E-05	486908.9	3765978.1	540.4	0.00	1.70	0.85	YES	
L0002216	0	0.35080E-05	486912.4	3765976.9	540.5	0.00	1.70	0.85	YES	
L0002217	0	0.35080E-05	486915.8	3765975.6	540.6	0.00	1.70	0.85	YES	
L0002218	0	0.35080E-05	486919.3	3765974.4	540.7	0.00	1.70	0.85	YES	
L0002219	0	0.35080E-05	486922.7	3765973.2	540.7	0.00	1.70	0.85	YES	
L0002220	0	0.35080E-05	486926.2	3765972.0	540.8	0.00	1.70	0.85	YES	

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L0002221        0   0.35080E-05  486929.6 3765970.8    540.8     0.00     1.70     0.85     YES
L0002222        0   0.35080E-05  486933.1 3765969.5    540.8     0.00     1.70     0.85     YES
L0002223        0   0.35080E-05  486936.5 3765968.3    540.9     0.00     1.70     0.85     YES
L0002224        0   0.35080E-05  486939.9 3765967.1    541.1     0.00     1.70     0.85     YES
L0002225        0   0.35080E-05  486943.4 3765965.9    541.3     0.00     1.70     0.85     YES
L0002226        0   0.35080E-05  486946.8 3765964.7    541.5     0.00     1.70     0.85     YES
L0002227        0   0.35080E-05  486950.3 3765963.4    541.7     0.00     1.70     0.85     YES
L0002228        0   0.35080E-05  486953.7 3765962.2    541.9     0.00     1.70     0.85     YES
L0002229        0   0.35080E-05  486957.2 3765961.0    542.1     0.00     1.70     0.85     YES
L0002230        0   0.35080E-05  486960.6 3765959.8    542.3     0.00     1.70     0.85     YES
L0002231        0   0.35080E-05  486964.1 3765958.6    542.5     0.00     1.70     0.85     YES
L0002232        0   0.35080E-05  486967.5 3765957.3    542.7     0.00     1.70     0.85     YES
L0002233        0   0.35080E-05  486971.0 3765956.1    542.9     0.00     1.70     0.85     YES
L0002234        0   0.35080E-05  486974.4 3765954.9    543.0     0.00     1.70     0.85     YES
L0002235        0   0.35080E-05  486977.9 3765953.7    543.2     0.00     1.70     0.85     YES
L0002236        0   0.35080E-05  486981.3 3765952.5    543.4     0.00     1.70     0.85     YES
L0002237        0   0.35080E-05  486984.8 3765951.2    543.5     0.00     1.70     0.85     YES
L0002238        0   0.35080E-05  486988.2 3765950.0    543.7     0.00     1.70     0.85     YES
L0002239        0   0.35080E-05  486991.7 3765948.8    543.8     0.00     1.70     0.85     YES
L0002240        0   0.35080E-05  486995.1 3765947.6    543.9     0.00     1.70     0.85     YES
L0002241        0   0.35080E-05  486998.6 3765946.4    544.0     0.00     1.70     0.85     YES
L0002242        0   0.35080E-05  487002.0 3765945.1    544.1     0.00     1.70     0.85     YES
L0002243        0   0.35080E-05  487005.5 3765943.9    544.2     0.00     1.70     0.85     YES
L0002244        0   0.35080E-05  487008.9 3765942.7    544.3     0.00     1.70     0.85     YES
L0002245        0   0.35080E-05  487012.4 3765941.5    544.3     0.00     1.70     0.85     YES
L0002246        0   0.35080E-05  487015.8 3765940.3    544.4     0.00     1.70     0.85     YES
L0002247        0   0.35080E-05  487019.3 3765939.0    544.5     0.00     1.70     0.85     YES
L0002248        0   0.35080E-05  487022.7 3765937.7    544.5     0.00     1.70     0.85     YES
L0002249        0   0.35080E-05  487026.1 3765936.4    544.7     0.00     1.70     0.85     YES
L0002250        0   0.35080E-05  487029.5 3765935.1    544.9     0.00     1.70     0.85     YES
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*** 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
L0002251	0	0.35080E-05	487032.9	3765933.7	545.0	0.00	1.70	0.85	YES	
L0002252	0	0.35080E-05	487036.3	3765932.4	545.2	0.00	1.70	0.85	YES	
L0002253	0	0.35080E-05	487039.7	3765931.0	545.4	0.00	1.70	0.85	YES	
L0002254	0	0.35080E-05	487043.1	3765929.7	545.6	0.00	1.70	0.85	YES	
L0002255	0	0.35080E-05	487046.5	3765928.4	545.8	0.00	1.70	0.85	YES	
L0002256	0	0.35080E-05	487049.9	3765927.0	546.0	0.00	1.70	0.85	YES	
L0002257	0	0.35080E-05	487053.3	3765925.7	546.2	0.00	1.70	0.85	YES	

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L0002258          0    0.35080E-05   487056.7 3765924.3   546.4    0.00     1.70      0.85     YES
L0002259          0    0.35080E-05   487060.1 3765923.0   546.6    0.00     1.70      0.85     YES
L0002260          0    0.35080E-05   487063.5 3765921.7   546.7    0.00     1.70      0.85     YES
L0002261          0    0.35080E-05   487066.9 3765920.3   546.9    0.00     1.70      0.85     YES
L0002262          0    0.35080E-05   487070.3 3765919.0   547.0    0.00     1.70      0.85     YES
L0002263          0    0.35080E-05   487073.7 3765917.6   547.2    0.00     1.70      0.85     YES
L0002264          0    0.35080E-05   487077.1 3765916.3   547.3    0.00     1.70      0.85     YES
L0002265          0    0.35080E-05   487080.5 3765915.0   547.4    0.00     1.70      0.85     YES
L0002266          0    0.35080E-05   487083.9 3765913.6   547.5    0.00     1.70      0.85     YES
L0002267          0    0.35080E-05   487087.3 3765912.3   547.6    0.00     1.70      0.85     YES
L0002268          0    0.35080E-05   487090.7 3765910.9   547.6    0.00     1.70      0.85     YES
L0002269          0    0.35080E-05   487094.1 3765909.6   547.7    0.00     1.70      0.85     YES
L0002270          0    0.35080E-05   487097.5 3765908.3   547.7    0.00     1.70      0.85     YES
L0002271          0    0.35080E-05   487100.9 3765906.9   547.8    0.00     1.70      0.85     YES
L0002272          0    0.35080E-05   487104.4 3765905.6   547.9    0.00     1.70      0.85     YES
L0002273          0    0.35080E-05   487107.8 3765904.2   548.0    0.00     1.70      0.85     YES
L0002274          0    0.35080E-05   487111.2 3765902.9   548.2    0.00     1.70      0.85     YES
L0002275          0    0.35080E-05   487114.6 3765901.6   548.3    0.00     1.70      0.85     YES
L0002276          0    0.35080E-05   487118.0 3765900.2   548.6    0.00     1.70      0.85     YES
L0002277          0    0.35080E-05   487121.4 3765898.9   548.8    0.00     1.70      0.85     YES
L0002278          0    0.35080E-05   487124.8 3765897.5   549.0    0.00     1.70      0.85     YES
L0002279          0    0.35080E-05   487128.2 3765896.2   549.2    0.00     1.70      0.85     YES
L0002280          0    0.35080E-05   487131.5 3765894.7   549.5    0.00     1.70      0.85     YES
L0002281          0    0.35080E-05   487134.8 3765893.2   549.7    0.00     1.70      0.85     YES
L0002282          0    0.35080E-05   487138.2 3765891.7   549.9    0.00     1.70      0.85     YES
L0002283          0    0.35080E-05   487141.5 3765890.2   550.2    0.00     1.70      0.85     YES
L0002284          0    0.35080E-05   487144.9 3765888.7   550.8    0.00     1.70      0.85     YES
L0002285          0    0.35080E-05   487148.2 3765887.2   551.3    0.00     1.70      0.85     YES
L0002286          0    0.35080E-05   487151.6 3765885.8   551.8    0.00     1.70      0.85     YES
L0002287          0    0.35080E-05   487154.9 3765884.3   552.3    0.00     1.70      0.85     YES
L0002288          0    0.35080E-05   487158.2 3765882.8   552.8    0.00     1.70      0.85     YES
L0002289          0    0.35080E-05   487161.6 3765881.3   553.2    0.00     1.70      0.85     YES
L0002290          0    0.35080E-05   487164.9 3765879.8   553.6    0.00     1.70      0.85     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002291	0	0.35080E-05	487168.3	3765878.3	554.0	0.00	1.70	0.85	YES	
L0002292	0	0.35080E-05	487171.6	3765876.8	554.4	0.00	1.70	0.85	YES	
L0002293	0	0.35080E-05	487174.9	3765875.4	554.8	0.00	1.70	0.85	YES	
L0002294	0	0.35080E-05	487178.3	3765873.9	555.1	0.00	1.70	0.85	YES	

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L0002295      0   0.35080E-05   487181.6 3765872.4   555.4    0.00     1.70    0.85    YES
L0002296      0   0.35080E-05   487185.0 3765870.9   555.7    0.00     1.70    0.85    YES
L0002297      0   0.35080E-05   487188.3 3765869.4   555.9    0.00     1.70    0.85    YES
L0002298      0   0.35080E-05   487191.7 3765867.9   556.1    0.00     1.70    0.85    YES
L0002299      0   0.35080E-05   487195.0 3765866.4   555.8    0.00     1.70    0.85    YES
L0002300      0   0.35080E-05   487198.3 3765865.0   555.4    0.00     1.70    0.85    YES
L0002301      0   0.35080E-05   487201.7 3765863.5   555.1    0.00     1.70    0.85    YES
L0002302      0   0.35080E-05   487205.0 3765862.0   554.8    0.00     1.70    0.85    YES
L0002303      0   0.35080E-05   487208.4 3765860.5   554.6    0.00     1.70    0.85    YES
L0002304      0   0.35080E-05   487211.7 3765859.0   554.4    0.00     1.70    0.85    YES
L0002305      0   0.35080E-05   487215.1 3765857.5   554.2    0.00     1.70    0.85    YES
L0002306      0   0.35080E-05   487218.4 3765856.0   554.2    0.00     1.70    0.85    YES
L0002307      0   0.35080E-05   487221.7 3765854.6   554.3    0.00     1.70    0.85    YES
L0002308      0   0.35080E-05   487225.1 3765853.1   554.4    0.00     1.70    0.85    YES
L0002309      0   0.35080E-05   487228.4 3765851.6   554.5    0.00     1.70    0.85    YES
L0002310      0   0.35080E-05   487231.8 3765850.1   554.6    0.00     1.70    0.85    YES
L0002311      0   0.35080E-05   487235.1 3765848.6   554.7    0.00     1.70    0.85    YES
L0002312      0   0.35080E-05   487238.5 3765847.1   554.8    0.00     1.70    0.85    YES
L0002313      0   0.35080E-05   487241.8 3765845.6   554.9    0.00     1.70    0.85    YES
L0002314      0   0.35080E-05   487245.1 3765844.2   555.1    0.00     1.70    0.85    YES
L0002315      0   0.35080E-05   487248.5 3765842.7   555.4    0.00     1.70    0.85    YES
L0002316      0   0.35080E-05   487251.8 3765841.2   555.7    0.00     1.70    0.85    YES
L0002317      0   0.35080E-05   487255.2 3765839.7   556.0    0.00     1.70    0.85    YES
L0002318      0   0.35080E-05   487258.4 3765838.0   556.3    0.00     1.70    0.85    YES
L0002319      0   0.35080E-05   487261.6 3765836.3   556.5    0.00     1.70    0.85    YES
L0002320      0   0.35080E-05   487264.8 3765834.5   556.8    0.00     1.70    0.85    YES
L0002321      0   0.35080E-05   487268.0 3765832.8   557.0    0.00     1.70    0.85    YES
L0002322      0   0.35080E-05   487271.2 3765831.0   557.3    0.00     1.70    0.85    YES
L0002323      0   0.35080E-05   487274.5 3765829.2   557.7    0.00     1.70    0.85    YES
L0002324      0   0.35080E-05   487277.7 3765827.5   557.9    0.00     1.70    0.85    YES
L0002325      0   0.35080E-05   487280.9 3765825.7   558.2    0.00     1.70    0.85    YES
L0002326      0   0.35080E-05   487284.1 3765824.0   558.4    0.00     1.70    0.85    YES
L0002327      0   0.35080E-05   487287.3 3765822.2   558.6    0.00     1.70    0.85    YES
L0002328      0   0.35080E-05   487290.5 3765820.5   558.7    0.00     1.70    0.85    YES
L0002329      0   0.35080E-05   487293.7 3765818.7   558.8    0.00     1.70    0.85    YES
L0002330      0   0.35080E-05   487296.9 3765817.0   558.9    0.00     1.70    0.85    YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002331	0	0.35080E-05	487300.1	3765815.2	559.0	0.00	1.70	0.85	YES	

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L0002332        0   0.35080E-05  487303.3 3765813.5   559.1     0.00     1.70     0.85      YES
L0002333        0   0.35080E-05  487306.6 3765811.7   559.3     0.00     1.70     0.85      YES
L0002334        0   0.35080E-05  487309.8 3765810.0   559.5     0.00     1.70     0.85      YES
L0002335        0   0.35080E-05  487313.0 3765808.2   559.7     0.00     1.70     0.85      YES
L0002336        0   0.35080E-05  487316.2 3765806.5   559.9     0.00     1.70     0.85      YES
L0002337        0   0.35080E-05  487319.4 3765804.7   560.1     0.00     1.70     0.85      YES
L0002338        0   0.35080E-05  487322.6 3765802.9   560.4     0.00     1.70     0.85      YES
L0002339        0   0.35080E-05  487325.8 3765801.2   560.8     0.00     1.70     0.85      YES
L0002340        0   0.35080E-05  487329.0 3765799.4   561.2     0.00     1.70     0.85      YES
L0002341        0   0.35080E-05  487332.2 3765797.7   561.5     0.00     1.70     0.85      YES
L0002342        0   0.35080E-05  487335.4 3765795.9   561.8     0.00     1.70     0.85      YES
L0002343        0   0.35080E-05  487338.7 3765794.2   562.0     0.00     1.70     0.85      YES
L0002344        0   0.35080E-05  487341.9 3765792.4   562.2     0.00     1.70     0.85      YES
L0002345        0   0.35080E-05  487345.1 3765790.7   562.4     0.00     1.70     0.85      YES
L0002346        0   0.35080E-05  487348.3 3765788.9   562.8     0.00     1.70     0.85      YES
L0002347        0   0.35080E-05  487351.5 3765787.2   563.2     0.00     1.70     0.85      YES
L0002348        0   0.35080E-05  487354.7 3765785.4   563.6     0.00     1.70     0.85      YES
L0002349        0   0.35080E-05  487357.9 3765783.7   563.9     0.00     1.70     0.85      YES
L0002350        0   0.35080E-05  487361.1 3765781.9   564.3     0.00     1.70     0.85      YES
L0002351        0   0.35080E-05  487364.3 3765780.2   564.6     0.00     1.70     0.85      YES
L0002352        0   0.35080E-05  487367.6 3765778.4   565.0     0.00     1.70     0.85      YES
L0002353        0   0.35080E-05  487370.8 3765776.8   565.2     0.00     1.70     0.85      YES
L0002354        0   0.35080E-05  487374.1 3765775.1   565.5     0.00     1.70     0.85      YES
L0002355        0   0.35080E-05  487377.3 3765773.4   565.8     0.00     1.70     0.85      YES
L0002356        0   0.35080E-05  487380.5 3765771.7   566.0     0.00     1.70     0.85      YES
L0002357        0   0.35080E-05  487383.8 3765770.0   566.2     0.00     1.70     0.85      YES
L0002358        0   0.35080E-05  487387.0 3765768.3   566.4     0.00     1.70     0.85      YES
L0002359        0   0.35080E-05  487390.3 3765766.6   566.5     0.00     1.70     0.85      YES
L0002360        0   0.35080E-05  487393.5 3765764.9   566.6     0.00     1.70     0.85      YES
L0002361        0   0.35080E-05  487396.8 3765763.2   566.7     0.00     1.70     0.85      YES
L0002362        0   0.35080E-05  487400.0 3765761.5   567.1     0.00     1.70     0.85      YES
L0002363        0   0.35080E-05  487403.2 3765759.8   567.5     0.00     1.70     0.85      YES
L0002364        0   0.35080E-05  487406.5 3765758.1   567.8     0.00     1.70     0.85      YES
L0002365        0   0.35080E-05  487409.7 3765756.4   568.1     0.00     1.70     0.85      YES
L0002366        0   0.35080E-05  487413.0 3765754.8   568.3     0.00     1.70     0.85      YES
L0002367        0   0.35080E-05  487416.2 3765753.1   568.5     0.00     1.70     0.85      YES
L0002368        0   0.35080E-05  487419.5 3765751.4   568.9     0.00     1.70     0.85      YES
L0002369        0   0.35080E-05  487422.7 3765749.7   569.3     0.00     1.70     0.85      YES
L0002370        0   0.35080E-05  487425.9 3765748.0   570.1     0.00     1.70     0.85      YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

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           NUMBER EMISSION RATE                   BASE    RELEASE   INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE   PART.  (GRAMS/SEC)      X        Y      ELEV.   HEIGHT    SY       SZ     SOURCE  SCALAR VARY
    ID     CATS.                (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)           BY
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L0002371          0   0.35080E-05   487429.2 3765746.3    570.8    0.00    1.70    0.85      YES
L0002372          0   0.35080E-05   487432.4 3765744.6    571.4    0.00    1.70    0.85      YES
L0002373          0   0.35080E-05   487435.7 3765742.9    571.8    0.00    1.70    0.85      YES
L0002374          0   0.35080E-05   487438.9 3765741.2    572.2    0.00    1.70    0.85      YES
L0002375          0   0.35080E-05   487442.2 3765739.5    572.5    0.00    1.70    0.85      YES
L0002376          0   0.35080E-05   487445.4 3765737.8    572.7    0.00    1.70    0.85      YES
L0002377          0   0.35080E-05   487448.6 3765736.1    572.8    0.00    1.70    0.85      YES
L0002378          0   0.35080E-05   487451.8 3765734.4    573.0    0.00    1.70    0.85      YES
L0002379          0   0.35080E-05   487455.1 3765732.7    573.1    0.00    1.70    0.85      YES
L0002380          0   0.35080E-05   487458.3 3765730.9    573.1    0.00    1.70    0.85      YES
L0002381          0   0.35080E-05   487461.5 3765729.2    573.1    0.00    1.70    0.85      YES
L0002382          0   0.35080E-05   487464.7 3765727.5    573.0    0.00    1.70    0.85      YES
L0002383          0   0.35080E-05   487468.0 3765725.8    572.9    0.00    1.70    0.85      YES
L0002384          0   0.35080E-05   487471.2 3765724.0    572.7    0.00    1.70    0.85      YES
L0002385          0   0.35080E-05   487474.4 3765722.3    572.4    0.00    1.70    0.85      YES
L0002386          0   0.35080E-05   487477.7 3765720.6    572.5    0.00    1.70    0.85      YES
L0002387          0   0.35080E-05   487480.9 3765718.9    572.8    0.00    1.70    0.85      YES
L0002388          0   0.35080E-05   487484.1 3765717.2    573.1    0.00    1.70    0.85      YES
L0002389          0   0.35080E-05   487487.3 3765715.4    573.3    0.00    1.70    0.85      YES
L0002390          0   0.35080E-05   487490.6 3765713.7    573.5    0.00    1.70    0.85      YES
L0002391          0   0.35080E-05   487493.8 3765712.0    573.6    0.00    1.70    0.85      YES
L0002392          0   0.35080E-05   487497.0 3765710.3    573.7    0.00    1.70    0.85      YES
L0002393          0   0.35080E-05   487500.2 3765708.6    573.9    0.00    1.70    0.85      YES
L0002394          0   0.35080E-05   487503.5 3765706.8    574.2    0.00    1.70    0.85      YES
L0002395          0   0.35080E-05   487506.7 3765705.1    574.5    0.00    1.70    0.85      YES
L0002396          0   0.35080E-05   487509.9 3765703.4    574.8    0.00    1.70    0.85      YES
L0002397          0   0.35080E-05   487513.2 3765701.7    575.0    0.00    1.70    0.85      YES
L0002398          0   0.35080E-05   487516.4 3765699.9    575.2    0.00    1.70    0.85      YES
L0002399          0   0.35080E-05   487519.6 3765698.2    575.4    0.00    1.70    0.85      YES
L0002400          0   0.35080E-05   487522.8 3765696.5    575.5    0.00    1.70    0.85      YES
L0002401          0   0.35080E-05   487526.0 3765694.8    575.7    0.00    1.70    0.85      YES
L0002402          0   0.35080E-05   487529.3 3765693.0    576.1    0.00    1.70    0.85      YES
L0002403          0   0.35080E-05   487532.5 3765691.3    576.5    0.00    1.70    0.85      YES
L0002404          0   0.35080E-05   487535.7 3765689.6    577.1    0.00    1.70    0.85      YES
L0002405          0   0.35080E-05   487538.9 3765687.8    577.6    0.00    1.70    0.85      YES
L0002406          0   0.35080E-05   487542.2 3765686.1    578.1    0.00    1.70    0.85      YES
L0002407          0   0.35080E-05   487545.4 3765684.3    578.5    0.00    1.70    0.85      YES
L0002408          0   0.35080E-05   487548.6 3765682.6    578.8    0.00    1.70    0.85      YES
L0002409          0   0.35080E-05   487551.8 3765680.9    579.1    0.00    1.70    0.85      YES
L0002410          0   0.35080E-05   487555.0 3765679.1    579.5    0.00    1.70    0.85      YES

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                 ***      22:23:47
                                                                                                          PAGE    9
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002411	0	0.35080E-05	487558.3	3765677.4	579.8	0.00	1.70	0.85	YES	
L0002412	0	0.35080E-05	487561.5	3765675.7	580.1	0.00	1.70	0.85	YES	
L0002413	0	0.35080E-05	487564.7	3765673.9	580.2	0.00	1.70	0.85	YES	
L0002414	0	0.35080E-05	487567.9	3765672.2	580.2	0.00	1.70	0.85	YES	
L0002415	0	0.35080E-05	487571.1	3765670.5	580.1	0.00	1.70	0.85	YES	
L0002416	0	0.35080E-05	487574.3	3765668.7	579.9	0.00	1.70	0.85	YES	
L0002417	0	0.35080E-05	487577.5	3765666.8	579.6	0.00	1.70	0.85	YES	
L0002418	0	0.35080E-05	487580.6	3765664.9	579.5	0.00	1.70	0.85	YES	
L0002419	0	0.35080E-05	487583.7	3765663.0	579.2	0.00	1.70	0.85	YES	
L0002420	0	0.35080E-05	487586.8	3765661.1	578.9	0.00	1.70	0.85	YES	
L0002421	0	0.35080E-05	487590.0	3765659.2	578.9	0.00	1.70	0.85	YES	
L0002422	0	0.35080E-05	487593.1	3765657.3	579.3	0.00	1.70	0.85	YES	
L0002423	0	0.35080E-05	487596.2	3765655.4	579.6	0.00	1.70	0.85	YES	
L0002424	0	0.35080E-05	487599.4	3765653.6	579.9	0.00	1.70	0.85	YES	
L0002425	0	0.35080E-05	487602.5	3765651.7	580.1	0.00	1.70	0.85	YES	
L0002426	0	0.35080E-05	487605.6	3765649.8	580.1	0.00	1.70	0.85	YES	
L0002427	0	0.35080E-05	487608.8	3765647.9	580.1	0.00	1.70	0.85	YES	
L0002428	0	0.35080E-05	487612.0	3765646.2	580.1	0.00	1.70	0.85	YES	
L0002429	0	0.35080E-05	487615.3	3765644.6	580.2	0.00	1.70	0.85	YES	
L0002430	0	0.35080E-05	487618.6	3765643.0	580.2	0.00	1.70	0.85	YES	
L0002431	0	0.35080E-05	487621.9	3765641.4	580.1	0.00	1.70	0.85	YES	
L0002432	0	0.35080E-05	487625.2	3765639.8	580.1	0.00	1.70	0.85	YES	
L0002433	0	0.35080E-05	487628.5	3765638.2	579.9	0.00	1.70	0.85	YES	
L0002434	0	0.35080E-05	487631.8	3765636.6	579.6	0.00	1.70	0.85	YES	
L0002435	0	0.35080E-05	487635.1	3765635.1	579.5	0.00	1.70	0.85	YES	
L0002436	0	0.35200E-05	486606.8	3766048.4	528.6	0.00	1.70	0.85	YES	
L0002437	0	0.35200E-05	486610.3	3766047.3	528.8	0.00	1.70	0.85	YES	
L0002438	0	0.35200E-05	486613.8	3766046.2	528.9	0.00	1.70	0.85	YES	
L0002439	0	0.35200E-05	486617.3	3766045.0	529.0	0.00	1.70	0.85	YES	
L0002440	0	0.35200E-05	486620.7	3766043.9	529.1	0.00	1.70	0.85	YES	
L0002441	0	0.35200E-05	486624.2	3766042.8	529.2	0.00	1.70	0.85	YES	
L0002442	0	0.35200E-05	486627.7	3766041.6	529.4	0.00	1.70	0.85	YES	
L0002443	0	0.35200E-05	486631.2	3766040.5	529.5	0.00	1.70	0.85	YES	
L0002444	0	0.35200E-05	486634.6	3766039.3	529.7	0.00	1.70	0.85	YES	
L0002445	0	0.35200E-05	486638.1	3766038.2	529.8	0.00	1.70	0.85	YES	
L0002446	0	0.35200E-05	486641.6	3766037.1	530.0	0.00	1.70	0.85	YES	
L0002447	0	0.35200E-05	486645.1	3766035.9	530.1	0.00	1.70	0.85	YES	
L0002448	0	0.35200E-05	486648.5	3766034.8	530.3	0.00	1.70	0.85	YES	
L0002449	0	0.35200E-05	486652.0	3766033.6	530.5	0.00	1.70	0.85	YES	
L0002450	0	0.35200E-05	486655.5	3766032.5	530.6	0.00	1.70	0.85	YES	

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2042-2055   ***   22:23:47
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                               *** VOLUME SOURCE DATA ***


              NUMBER EMISSION RATE                     BASE   RELEASE   INIT.   INIT.   URBAN  EMISSION RATE
     SOURCE   PART.  (GRAMS/SEC)      X        Y        ELEV.  HEIGHT    SY      SZ      SOURCE SCALAR VARY
       ID     CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)               BY
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     L0002451    0   0.35200E-05  486659.0 3766031.4  530.8    0.00    1.70    0.85     YES
     L0002452    0   0.35200E-05  486662.5 3766030.2  530.9    0.00    1.70    0.85     YES
     L0002453    0   0.35200E-05  486665.9 3766029.1  531.0    0.00    1.70    0.85     YES
     L0002454    0   0.35200E-05  486669.4 3766028.0  531.1    0.00    1.70    0.85     YES
     L0002455    0   0.35200E-05  486672.9 3766026.8  531.2    0.00    1.70    0.85     YES
     L0002456    0   0.35200E-05  486676.4 3766025.7  531.3    0.00    1.70    0.85     YES
     L0002457    0   0.35200E-05  486679.8 3766024.5  531.4    0.00    1.70    0.85     YES
     L0002458    0   0.35200E-05  486683.3 3766023.4  531.5    0.00    1.70    0.85     YES
     L0002459    0   0.35200E-05  486686.8 3766022.3  531.6    0.00    1.70    0.85     YES
     L0002460    0   0.35200E-05  486690.3 3766021.1  531.7    0.00    1.70    0.85     YES
     L0002461    0   0.35200E-05  486693.7 3766020.0  531.9    0.00    1.70    0.85     YES
     L0002462    0   0.35200E-05  486697.2 3766018.9  532.0    0.00    1.70    0.85     YES
     L0002463    0   0.35200E-05  486700.7 3766017.7  532.1    0.00    1.70    0.85     YES
     L0002464    0   0.35200E-05  486704.2 3766016.6  532.3    0.00    1.70    0.85     YES
     L0002465    0   0.35200E-05  486707.6 3766015.4  532.4    0.00    1.70    0.85     YES
     L0002466    0   0.35200E-05  486711.1 3766014.3  532.6    0.00    1.70    0.85     YES
     L0002467    0   0.35200E-05  486714.6 3766013.2  532.8    0.00    1.70    0.85     YES
     L0002468    0   0.35200E-05  486718.1 3766012.0  532.9    0.00    1.70    0.85     YES
     L0002469    0   0.35200E-05  486721.5 3766010.9  533.1    0.00    1.70    0.85     YES
     L0002470    0   0.35200E-05  486725.0 3766009.7  533.2    0.00    1.70    0.85     YES
     L0002471    0   0.35200E-05  486728.5 3766008.6  533.4    0.00    1.70    0.85     YES
     L0002472    0   0.35200E-05  486732.0 3766007.5  533.6    0.00    1.70    0.85     YES
     L0002473    0   0.35200E-05  486735.4 3766006.3  533.8    0.00    1.70    0.85     YES
     L0002474    0   0.35200E-05  486738.9 3766005.2  534.0    0.00    1.70    0.85     YES
     L0002475    0   0.35200E-05  486742.4 3766004.0  534.1    0.00    1.70    0.85     YES
     L0002476    0   0.35200E-05  486745.8 3766002.8  534.3    0.00    1.70    0.85     YES
     L0002477    0   0.35200E-05  486749.3 3766001.6  534.5    0.00    1.70    0.85     YES
     L0002478    0   0.35200E-05  486752.7 3766000.4  534.7    0.00    1.70    0.85     YES
     L0002479    0   0.35200E-05  486756.2 3765999.2  534.8    0.00    1.70    0.85     YES
     L0002480    0   0.35200E-05  486759.7 3765998.0  534.9    0.00    1.70    0.85     YES
     L0002481    0   0.35200E-05  486763.1 3765996.8  535.0    0.00    1.70    0.85     YES
     L0002482    0   0.35200E-05  486766.6 3765995.6  535.1    0.00    1.70    0.85     YES
     L0002483    0   0.35200E-05  486770.0 3765994.4  535.2    0.00    1.70    0.85     YES
     L0002484    0   0.35200E-05  486773.5 3765993.1  535.3    0.00    1.70    0.85     YES
     L0002485    0   0.35200E-05  486776.9 3765991.9  535.4    0.00    1.70    0.85     YES
     L0002486    0   0.35200E-05  486780.4 3765990.7  535.6    0.00    1.70    0.85     YES
     L0002487    0   0.35200E-05  486783.8 3765989.5  535.7    0.00    1.70    0.85     YES
     L0002488    0   0.35200E-05  486787.3 3765988.3  535.8    0.00    1.70    0.85     YES
     L0002489    0   0.35200E-05  486790.7 3765987.1  536.0    0.00    1.70    0.85     YES
     L0002490    0   0.35200E-05  486794.2 3765985.9  536.1    0.00    1.70    0.85     YES
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*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2042-2055   ***   22:23:47

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*** 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
L0002491	0	0.35200E-05	486797.6	3765984.7	536.3	0.00	1.70	0.85	YES	
L0002492	0	0.35200E-05	486801.1	3765983.4	536.4	0.00	1.70	0.85	YES	
L0002493	0	0.35200E-05	486804.5	3765982.2	536.6	0.00	1.70	0.85	YES	
L0002494	0	0.35200E-05	486808.0	3765981.0	536.8	0.00	1.70	0.85	YES	
L0002495	0	0.35200E-05	486811.4	3765979.8	537.0	0.00	1.70	0.85	YES	
L0002496	0	0.35200E-05	486814.9	3765978.6	537.1	0.00	1.70	0.85	YES	
L0002497	0	0.35200E-05	486818.3	3765977.4	537.3	0.00	1.70	0.85	YES	
L0002498	0	0.35200E-05	486821.8	3765976.2	537.5	0.00	1.70	0.85	YES	
L0002499	0	0.35200E-05	486825.2	3765975.0	537.7	0.00	1.70	0.85	YES	
L0002500	0	0.35200E-05	486828.7	3765973.8	537.9	0.00	1.70	0.85	YES	
L0002501	0	0.35200E-05	486832.1	3765972.5	538.0	0.00	1.70	0.85	YES	
L0002502	0	0.35200E-05	486835.6	3765971.3	538.2	0.00	1.70	0.85	YES	
L0002503	0	0.35200E-05	486839.0	3765970.1	538.4	0.00	1.70	0.85	YES	
L0002504	0	0.35200E-05	486842.5	3765969.0	538.6	0.00	1.70	0.85	YES	
L0002505	0	0.35200E-05	486846.0	3765967.9	538.7	0.00	1.70	0.85	YES	
L0002506	0	0.35200E-05	486849.5	3765966.8	538.8	0.00	1.70	0.85	YES	
L0002507	0	0.35200E-05	486852.9	3765965.6	538.9	0.00	1.70	0.85	YES	
L0002508	0	0.35200E-05	486856.4	3765964.5	539.0	0.00	1.70	0.85	YES	
L0002509	0	0.35200E-05	486859.9	3765963.4	539.1	0.00	1.70	0.85	YES	
L0002510	0	0.35200E-05	486863.4	3765962.3	539.2	0.00	1.70	0.85	YES	
L0002511	0	0.35200E-05	486866.9	3765961.1	539.3	0.00	1.70	0.85	YES	
L0002512	0	0.35200E-05	486870.3	3765960.0	539.4	0.00	1.70	0.85	YES	
L0002513	0	0.35200E-05	486873.8	3765958.9	539.6	0.00	1.70	0.85	YES	
L0002514	0	0.35200E-05	486877.3	3765957.8	539.7	0.00	1.70	0.85	YES	
L0002515	0	0.35200E-05	486880.8	3765956.6	539.8	0.00	1.70	0.85	YES	
L0002516	0	0.35200E-05	486884.3	3765955.5	540.0	0.00	1.70	0.85	YES	
L0002517	0	0.35200E-05	486887.8	3765954.4	540.1	0.00	1.70	0.85	YES	
L0002518	0	0.35200E-05	486891.2	3765953.3	540.3	0.00	1.70	0.85	YES	
L0002519	0	0.35200E-05	486894.7	3765952.1	540.4	0.00	1.70	0.85	YES	
L0002520	0	0.35200E-05	486898.2	3765951.0	540.6	0.00	1.70	0.85	YES	
L0002521	0	0.35200E-05	486901.7	3765949.9	540.7	0.00	1.70	0.85	YES	
L0002522	0	0.35200E-05	486905.2	3765948.8	540.9	0.00	1.70	0.85	YES	
L0002523	0	0.35200E-05	486908.6	3765947.6	541.1	0.00	1.70	0.85	YES	
L0002524	0	0.35200E-05	486912.1	3765946.5	541.2	0.00	1.70	0.85	YES	
L0002525	0	0.35200E-05	486915.6	3765945.4	541.4	0.00	1.70	0.85	YES	
L0002526	0	0.35200E-05	486919.1	3765944.3	541.6	0.00	1.70	0.85	YES	
L0002527	0	0.35200E-05	486922.6	3765943.1	541.8	0.00	1.70	0.85	YES	
L0002528	0	0.35200E-05	486926.0	3765942.0	541.9	0.00	1.70	0.85	YES	
L0002529	0	0.35200E-05	486929.5	3765940.9	542.1	0.00	1.70	0.85	YES	
L0002530	0	0.35200E-05	486933.0	3765939.8	542.3	0.00	1.70	0.85	YES	

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                        ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                 ***        22:23:47
                                                                                                             PAGE  12
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                               *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                       BASE    RELEASE    INIT.    INIT.   URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)      X        Y         ELEV.   HEIGHT     SY       SZ      SOURCE  SCALAR VARY
    ID        CATS.              (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)                BY
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  L0002531      0    0.35200E-05   486936.5 3765938.6   542.5    0.00      1.70     0.85     YES
  L0002532      0    0.35200E-05   486940.0 3765937.5   542.6    0.00      1.70     0.85     YES
  L0002533      0    0.35200E-05   486943.4 3765936.4   542.7    0.00      1.70     0.85     YES
  L0002534      0    0.35200E-05   486946.9 3765935.3   542.8    0.00      1.70     0.85     YES
  L0002535      0    0.35200E-05   486950.4 3765934.2   542.9    0.00      1.70     0.85     YES
  L0002536      0    0.35200E-05   486953.9 3765933.0   543.0    0.00      1.70     0.85     YES
  L0002537      0    0.35200E-05   486957.4 3765931.9   543.2    0.00      1.70     0.85     YES
  L0002538      0    0.35200E-05   486960.9 3765930.8   543.3    0.00      1.70     0.85     YES
  L0002539      0    0.35200E-05   486964.3 3765929.7   543.4    0.00      1.70     0.85     YES
  L0002540      0    0.35200E-05   486967.8 3765928.6   543.5    0.00      1.70     0.85     YES
  L0002541      0    0.35200E-05   486971.3 3765927.4   543.6    0.00      1.70     0.85     YES
  L0002542      0    0.35200E-05   486974.8 3765926.3   543.8    0.00      1.70     0.85     YES
  L0002543      0    0.35200E-05   486978.3 3765925.2   543.9    0.00      1.70     0.85     YES
  L0002544      0    0.35200E-05   486981.7 3765924.1   544.0    0.00      1.70     0.85     YES
  L0002545      0    0.35200E-05   486985.2 3765922.9   544.2    0.00      1.70     0.85     YES
  L0002546      0    0.35200E-05   486988.7 3765921.8   544.3    0.00      1.70     0.85     YES
  L0002547      0    0.35200E-05   486992.2 3765920.7   544.4    0.00      1.70     0.85     YES
  L0002548      0    0.35200E-05   486995.7 3765919.5   544.6    0.00      1.70     0.85     YES
  L0002549      0    0.35200E-05   486999.1 3765918.4   544.8    0.00      1.70     0.85     YES
  L0002550      0    0.35200E-05   487002.6 3765917.2   544.9    0.00      1.70     0.85     YES
  L0002551      0    0.35200E-05   487006.0 3765916.0   545.1    0.00      1.70     0.85     YES
  L0002552      0    0.35200E-05   487009.5 3765914.8   545.3    0.00      1.70     0.85     YES
  L0002553      0    0.35200E-05   487013.0 3765913.6   545.4    0.00      1.70     0.85     YES
  L0002554      0    0.35200E-05   487016.4 3765912.4   545.6    0.00      1.70     0.85     YES
  L0002555      0    0.35200E-05   487019.9 3765911.2   545.8    0.00      1.70     0.85     YES
  L0002556      0    0.35200E-05   487023.3 3765910.1   546.0    0.00      1.70     0.85     YES
  L0002557      0    0.35200E-05   487026.8 3765908.9   546.1    0.00      1.70     0.85     YES
  L0002558      0    0.35200E-05   487030.3 3765907.7   546.3    0.00      1.70     0.85     YES
  L0002559      0    0.35200E-05   487033.7 3765906.5   546.5    0.00      1.70     0.85     YES
  L0002560      0    0.35200E-05   487037.2 3765905.3   546.7    0.00      1.70     0.85     YES
  L0002561      0    0.35200E-05   487040.6 3765904.1   546.9    0.00      1.70     0.85     YES
  L0002562      0    0.35200E-05   487044.1 3765902.9   547.0    0.00      1.70     0.85     YES
  L0002563      0    0.35200E-05   487047.6 3765901.8   547.2    0.00      1.70     0.85     YES
  L0002564      0    0.35200E-05   487051.0 3765900.6   547.3    0.00      1.70     0.85     YES
  L0002565      0    0.35200E-05   487054.5 3765899.4   547.5    0.00      1.70     0.85     YES
  L0002566      0    0.35200E-05   487057.9 3765898.2   547.6    0.00      1.70     0.85     YES
  L0002567      0    0.35200E-05   487061.4 3765897.0   547.7    0.00      1.70     0.85     YES
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L0002568          0    0.35200E-05   487064.9 3765895.8   547.8     0.00     1.70     0.85     YES
L0002569          0    0.35200E-05   487068.3 3765894.6   547.9     0.00     1.70     0.85     YES
L0002570          0    0.35200E-05   487071.8 3765893.5   548.0     0.00     1.70     0.85     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002571	0	0.35200E-05	487075.2	3765892.3	548.1	0.00	1.70	0.85	YES	
L0002572	0	0.35200E-05	487078.7	3765891.1	548.2	0.00	1.70	0.85	YES	
L0002573	0	0.35200E-05	487082.2	3765889.9	548.3	0.00	1.70	0.85	YES	
L0002574	0	0.35200E-05	487085.6	3765888.7	548.4	0.00	1.70	0.85	YES	
L0002575	0	0.35200E-05	487089.1	3765887.5	548.6	0.00	1.70	0.85	YES	
L0002576	0	0.35200E-05	487092.5	3765886.3	548.7	0.00	1.70	0.85	YES	
L0002577	0	0.35200E-05	487096.0	3765885.1	548.9	0.00	1.70	0.85	YES	
L0002578	0	0.35200E-05	487099.5	3765884.0	549.0	0.00	1.70	0.85	YES	
L0002579	0	0.35200E-05	487102.9	3765882.8	549.2	0.00	1.70	0.85	YES	
L0002580	0	0.35200E-05	487106.4	3765881.6	549.3	0.00	1.70	0.85	YES	
L0002581	0	0.35200E-05	487109.8	3765880.4	549.5	0.00	1.70	0.85	YES	
L0002582	0	0.35200E-05	487113.3	3765879.2	549.7	0.00	1.70	0.85	YES	
L0002583	0	0.35200E-05	487116.8	3765878.0	549.9	0.00	1.70	0.85	YES	
L0002584	0	0.35200E-05	487120.1	3765876.6	550.1	0.00	1.70	0.85	YES	
L0002585	0	0.35200E-05	487123.4	3765875.1	550.3	0.00	1.70	0.85	YES	
L0002586	0	0.35200E-05	487126.8	3765873.6	550.5	0.00	1.70	0.85	YES	
L0002587	0	0.35200E-05	487130.1	3765872.1	550.7	0.00	1.70	0.85	YES	
L0002588	0	0.35200E-05	487133.5	3765870.6	550.8	0.00	1.70	0.85	YES	
L0002589	0	0.35200E-05	487136.8	3765869.1	550.9	0.00	1.70	0.85	YES	
L0002590	0	0.35200E-05	487140.1	3765867.6	551.1	0.00	1.70	0.85	YES	
L0002591	0	0.35200E-05	487143.5	3765866.1	551.4	0.00	1.70	0.85	YES	
L0002592	0	0.35200E-05	487146.8	3765864.6	551.7	0.00	1.70	0.85	YES	
L0002593	0	0.35200E-05	487150.1	3765863.1	552.0	0.00	1.70	0.85	YES	
L0002594	0	0.35200E-05	487153.5	3765861.6	552.2	0.00	1.70	0.85	YES	
L0002595	0	0.35200E-05	487156.8	3765860.1	552.5	0.00	1.70	0.85	YES	
L0002596	0	0.35200E-05	487160.2	3765858.6	552.6	0.00	1.70	0.85	YES	
L0002597	0	0.35200E-05	487163.5	3765857.2	552.8	0.00	1.70	0.85	YES	
L0002598	0	0.35200E-05	487166.8	3765855.7	552.9	0.00	1.70	0.85	YES	
L0002599	0	0.35200E-05	487170.2	3765854.2	553.1	0.00	1.70	0.85	YES	
L0002600	0	0.35200E-05	487173.5	3765852.7	553.3	0.00	1.70	0.85	YES	
L0002601	0	0.35200E-05	487176.9	3765851.2	553.4	0.00	1.70	0.85	YES	
L0002602	0	0.35200E-05	487180.2	3765849.7	553.5	0.00	1.70	0.85	YES	
L0002603	0	0.35200E-05	487183.5	3765848.2	553.6	0.00	1.70	0.85	YES	
L0002604	0	0.35200E-05	487186.9	3765846.7	553.6	0.00	1.70	0.85	YES	

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L0002605            0   0.35200E-05   487190.2 3765845.2    553.6     0.00     1.70     0.85     YES
L0002606            0   0.35200E-05   487193.6 3765843.7    553.8     0.00     1.70     0.85     YES
L0002607            0   0.35200E-05   487196.9 3765842.2    553.9     0.00     1.70     0.85     YES
L0002608            0   0.35200E-05   487200.2 3765840.6    554.0     0.00     1.70     0.85     YES
L0002609            0   0.35200E-05   487203.5 3765839.0    554.2     0.00     1.70     0.85     YES
L0002610            0   0.35200E-05   487206.8 3765837.4    554.3     0.00     1.70     0.85     YES
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*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                              ***       08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations 2042-2055                        ***       22:23:47
                                                                                                                    PAGE  14
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                                    *** VOLUME SOURCE DATA ***


              NUMBER EMISSION RATE                    BASE     RELEASE   INIT.    INIT.    URBAN  EMISSION RATE
    SOURCE    PART.  (GRAMS/SEC)      X        Y       ELEV.    HEIGHT    SY       SZ       SOURCE SCALAR VARY
      ID      CATS.               (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)             BY
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    L0002611          0   0.35200E-05   487210.1 3765835.8    554.3     0.00     1.70     0.85     YES
    L0002612          0   0.35200E-05   487213.3 3765834.2    554.4     0.00     1.70     0.85     YES
    L0002613          0   0.35200E-05   487216.6 3765832.6    554.5     0.00     1.70     0.85     YES
    L0002614          0   0.35200E-05   487219.9 3765831.0    554.6     0.00     1.70     0.85     YES
    L0002615          0   0.35200E-05   487223.2 3765829.4    554.7     0.00     1.70     0.85     YES
    L0002616          0   0.35200E-05   487226.5 3765827.8    554.9     0.00     1.70     0.85     YES
    L0002617          0   0.35200E-05   487229.8 3765826.2    555.0     0.00     1.70     0.85     YES
    L0002618          0   0.35200E-05   487233.1 3765824.6    555.1     0.00     1.70     0.85     YES
    L0002619          0   0.35200E-05   487236.4 3765823.0    555.2     0.00     1.70     0.85     YES
    L0002620          0   0.35200E-05   487239.7 3765821.4    555.4     0.00     1.70     0.85     YES
    L0002621          0   0.35200E-05   487243.0 3765819.8    555.5     0.00     1.70     0.85     YES
    L0002622          0   0.35200E-05   487246.2 3765818.2    555.7     0.00     1.70     0.85     YES
    L0002623          0   0.35200E-05   487249.5 3765816.6    555.9     0.00     1.70     0.85     YES
    L0002624          0   0.35200E-05   487252.8 3765815.0    556.1     0.00     1.70     0.85     YES
    L0002625          0   0.35200E-05   487256.1 3765813.4    556.2     0.00     1.70     0.85     YES
    L0002626          0   0.35200E-05   487259.4 3765811.9    556.4     0.00     1.70     0.85     YES
    L0002627          0   0.35200E-05   487262.7 3765810.3    556.6     0.00     1.70     0.85     YES
    L0002628          0   0.35200E-05   487266.0 3765808.7    556.8     0.00     1.70     0.85     YES
    L0002629          0   0.35200E-05   487269.3 3765807.1    556.9     0.00     1.70     0.85     YES
    L0002630          0   0.35200E-05   487272.6 3765805.5    557.2     0.00     1.70     0.85     YES
    L0002631          0   0.35200E-05   487275.9 3765803.9    557.4     0.00     1.70     0.85     YES
    L0002632          0   0.35200E-05   487279.1 3765802.3    557.5     0.00     1.70     0.85     YES
    L0002633          0   0.35200E-05   487282.4 3765800.6    557.7     0.00     1.70     0.85     YES
    L0002634          0   0.35200E-05   487285.6 3765798.8    557.9     0.00     1.70     0.85     YES
    L0002635          0   0.35200E-05   487288.7 3765797.0    558.0     0.00     1.70     0.85     YES
    L0002636          0   0.35200E-05   487291.9 3765795.1    558.2     0.00     1.70     0.85     YES
    L0002637          0   0.35200E-05   487295.1 3765793.3    558.3     0.00     1.70     0.85     YES
    L0002638          0   0.35200E-05   487298.2 3765791.4    558.5     0.00     1.70     0.85     YES
    L0002639          0   0.35200E-05   487301.4 3765789.6    558.6     0.00     1.70     0.85     YES
    L0002640          0   0.35200E-05   487304.5 3765787.7    558.8     0.00     1.70     0.85     YES
    L0002641          0   0.35200E-05   487307.7 3765785.9    558.9     0.00     1.70     0.85     YES
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L0002642          0   0.35200E-05   487310.9 3765784.1   559.0    0.00    1.70    0.85    YES
L0002643          0   0.35200E-05   487314.0 3765782.2   559.2    0.00    1.70    0.85    YES
L0002644          0   0.35200E-05   487317.2 3765780.4   559.4    0.00    1.70    0.85    YES
L0002645          0   0.35200E-05   487320.3 3765778.5   559.6    0.00    1.70    0.85    YES
L0002646          0   0.35200E-05   487323.5 3765776.7   559.8    0.00    1.70    0.85    YES
L0002647          0   0.35200E-05   487326.7 3765774.9   560.1    0.00    1.70    0.85    YES
L0002648          0   0.35200E-05   487329.8 3765773.0   560.3    0.00    1.70    0.85    YES
L0002649          0   0.35200E-05   487333.0 3765771.2   560.5    0.00    1.70    0.85    YES
L0002650          0   0.35200E-05   487336.1 3765769.3   560.7    0.00    1.70    0.85    YES
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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***      08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                        ***      22:23:47
                                                                                                                  PAGE  15
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002651	0	0.35200E-05	487339.3	3765767.5	560.9	0.00	1.70	0.85	YES	
L0002652	0	0.35200E-05	487342.5	3765765.7	561.0	0.00	1.70	0.85	YES	
L0002653	0	0.35200E-05	487345.7	3765763.9	561.2	0.00	1.70	0.85	YES	
L0002654	0	0.35200E-05	487348.8	3765762.1	561.4	0.00	1.70	0.85	YES	
L0002655	0	0.35200E-05	487352.0	3765760.3	561.6	0.00	1.70	0.85	YES	
L0002656	0	0.35200E-05	487355.2	3765758.4	561.7	0.00	1.70	0.85	YES	
L0002657	0	0.35200E-05	487358.4	3765756.6	561.8	0.00	1.70	0.85	YES	
L0002658	0	0.35200E-05	487361.5	3765754.8	561.8	0.00	1.70	0.85	YES	
L0002659	0	0.35200E-05	487364.7	3765753.0	561.8	0.00	1.70	0.85	YES	
L0002660	0	0.35200E-05	487367.9	3765751.2	562.0	0.00	1.70	0.85	YES	
L0002661	0	0.35200E-05	487371.1	3765749.4	562.1	0.00	1.70	0.85	YES	
L0002662	0	0.35200E-05	487374.3	3765747.6	562.4	0.00	1.70	0.85	YES	
L0002663	0	0.35200E-05	487377.4	3765745.8	562.6	0.00	1.70	0.85	YES	
L0002664	0	0.35200E-05	487380.6	3765743.9	562.9	0.00	1.70	0.85	YES	
L0002665	0	0.35200E-05	487383.8	3765742.1	563.1	0.00	1.70	0.85	YES	
L0002666	0	0.35200E-05	487387.0	3765740.3	563.3	0.00	1.70	0.85	YES	
L0002667	0	0.35200E-05	487390.1	3765738.5	563.5	0.00	1.70	0.85	YES	
L0002668	0	0.35200E-05	487393.3	3765736.7	563.7	0.00	1.70	0.85	YES	
L0002669	0	0.35200E-05	487396.5	3765734.9	563.8	0.00	1.70	0.85	YES	
L0002670	0	0.35200E-05	487399.7	3765733.1	564.1	0.00	1.70	0.85	YES	
L0002671	0	0.35200E-05	487402.9	3765731.3	564.4	0.00	1.70	0.85	YES	
L0002672	0	0.35200E-05	487406.0	3765729.4	564.5	0.00	1.70	0.85	YES	
L0002673	0	0.35200E-05	487409.2	3765727.6	564.6	0.00	1.70	0.85	YES	
L0002674	0	0.35200E-05	487412.4	3765725.9	564.7	0.00	1.70	0.85	YES	
L0002675	0	0.35200E-05	487415.7	3765724.2	564.7	0.00	1.70	0.85	YES	
L0002676	0	0.35200E-05	487418.9	3765722.5	564.7	0.00	1.70	0.85	YES	
L0002677	0	0.35200E-05	487422.1	3765720.8	564.7	0.00	1.70	0.85	YES	
L0002678	0	0.35200E-05	487425.4	3765719.1	565.0	0.00	1.70	0.85	YES	

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L0002679        0   0.35200E-05  487428.6 3765717.4  565.2   0.00    1.70    0.85      YES
L0002680        0   0.35200E-05  487431.9 3765715.8  565.5   0.00    1.70    0.85      YES
L0002681        0   0.35200E-05  487435.1 3765714.1  565.7   0.00    1.70    0.85      YES
L0002682        0   0.35200E-05  487438.4 3765712.4  566.0   0.00    1.70    0.85      YES
L0002683        0   0.35200E-05  487441.6 3765710.7  566.2   0.00    1.70    0.85      YES
L0002684        0   0.35200E-05  487444.9 3765709.0  566.4   0.00    1.70    0.85      YES
L0002685        0   0.35200E-05  487448.1 3765707.3  566.6   0.00    1.70    0.85      YES
L0002686        0   0.35200E-05  487451.4 3765705.6  566.9   0.00    1.70    0.85      YES
L0002687        0   0.35200E-05  487454.6 3765704.0  567.2   0.00    1.70    0.85      YES
L0002688        0   0.35200E-05  487457.9 3765702.3  567.4   0.00    1.70    0.85      YES
L0002689        0   0.35200E-05  487461.1 3765700.6  567.6   0.00    1.70    0.85      YES
L0002690        0   0.35200E-05  487464.3 3765698.9  567.7   0.00    1.70    0.85      YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002691	0	0.35200E-05	487467.6	3765697.2	567.8	0.00	1.70	0.85	YES	
L0002692	0	0.35200E-05	487470.8	3765695.5	567.8	0.00	1.70	0.85	YES	
L0002693	0	0.35200E-05	487474.1	3765693.9	567.8	0.00	1.70	0.85	YES	
L0002694	0	0.35200E-05	487477.3	3765692.2	567.8	0.00	1.70	0.85	YES	
L0002695	0	0.35200E-05	487480.6	3765690.5	567.8	0.00	1.70	0.85	YES	
L0002696	0	0.35200E-05	487483.8	3765688.8	568.1	0.00	1.70	0.85	YES	
L0002697	0	0.35200E-05	487487.1	3765687.1	568.3	0.00	1.70	0.85	YES	
L0002698	0	0.35200E-05	487490.3	3765685.4	568.5	0.00	1.70	0.85	YES	
L0002699	0	0.35200E-05	487493.6	3765683.8	568.7	0.00	1.70	0.85	YES	
L0002700	0	0.35200E-05	487496.8	3765682.1	568.9	0.00	1.70	0.85	YES	
L0002701	0	0.35200E-05	487500.1	3765680.4	569.2	0.00	1.70	0.85	YES	
L0002702	0	0.35200E-05	487503.3	3765678.7	569.5	0.00	1.70	0.85	YES	
L0002703	0	0.35200E-05	487506.6	3765677.0	569.9	0.00	1.70	0.85	YES	
L0002704	0	0.35200E-05	487509.8	3765675.3	570.1	0.00	1.70	0.85	YES	
L0002705	0	0.35200E-05	487513.1	3765673.7	570.4	0.00	1.70	0.85	YES	
L0002706	0	0.35200E-05	487516.3	3765672.0	570.5	0.00	1.70	0.85	YES	
L0002707	0	0.35200E-05	487519.5	3765670.3	570.7	0.00	1.70	0.85	YES	
L0002708	0	0.35200E-05	487522.8	3765668.6	570.8	0.00	1.70	0.85	YES	
L0002709	0	0.35200E-05	487526.0	3765666.9	570.8	0.00	1.70	0.85	YES	
L0002710	0	0.35200E-05	487529.3	3765665.2	570.9	0.00	1.70	0.85	YES	
L0002711	0	0.35200E-05	487532.5	3765663.4	570.9	0.00	1.70	0.85	YES	
L0002712	0	0.35200E-05	487535.7	3765661.6	570.9	0.00	1.70	0.85	YES	
L0002713	0	0.35200E-05	487538.9	3765659.9	570.7	0.00	1.70	0.85	YES	
L0002714	0	0.35200E-05	487542.1	3765658.1	570.9	0.00	1.70	0.85	YES	
L0002715	0	0.35200E-05	487545.3	3765656.3	571.1	0.00	1.70	0.85	YES	

L0002716	0	0.35200E-05	487548.5	3765654.6	571.2	0.00	1.70	0.85	YES
L0002717	0	0.35200E-05	487551.7	3765652.8	571.5	0.00	1.70	0.85	YES
L0002718	0	0.35200E-05	487554.9	3765651.0	571.8	0.00	1.70	0.85	YES
L0002719	0	0.35200E-05	487558.1	3765649.3	572.1	0.00	1.70	0.85	YES
L0002720	0	0.35200E-05	487561.3	3765647.5	572.4	0.00	1.70	0.85	YES
L0002721	0	0.35200E-05	487564.5	3765645.7	572.7	0.00	1.70	0.85	YES
L0002722	0	0.35200E-05	487567.7	3765644.0	572.9	0.00	1.70	0.85	YES
L0002723	0	0.35200E-05	487570.9	3765642.2	573.0	0.00	1.70	0.85	YES
L0002724	0	0.35200E-05	487574.1	3765640.4	573.2	0.00	1.70	0.85	YES
L0002725	0	0.35200E-05	487577.3	3765638.7	573.4	0.00	1.70	0.85	YES
L0002726	0	0.35200E-05	487580.6	3765637.1	573.6	0.00	1.70	0.85	YES
L0002727	0	0.35200E-05	487583.9	3765635.4	573.7	0.00	1.70	0.85	YES
L0002728	0	0.35200E-05	487587.1	3765633.8	573.7	0.00	1.70	0.85	YES
L0002729	0	0.35200E-05	487590.4	3765632.2	573.7	0.00	1.70	0.85	YES
L0002730	0	0.35200E-05	487593.7	3765630.5	573.6	0.00	1.70	0.85	YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0002731	0	0.35200E-05	487596.9	3765628.9	573.5	0.00	1.70	0.85	YES	
L0002732	0	0.35200E-05	487600.2	3765627.2	573.6	0.00	1.70	0.85	YES	
L0002733	0	0.35200E-05	487603.5	3765625.6	573.9	0.00	1.70	0.85	YES	
L0002734	0	0.35200E-05	487606.8	3765624.0	574.1	0.00	1.70	0.85	YES	
L0002735	0	0.35200E-05	487610.0	3765622.3	574.4	0.00	1.70	0.85	YES	
L0002736	0	0.35200E-05	487613.3	3765620.7	574.7	0.00	1.70	0.85	YES	
L0002737	0	0.35200E-05	487616.6	3765619.1	574.9	0.00	1.70	0.85	YES	
L0002738	0	0.35200E-05	487619.8	3765617.4	575.2	0.00	1.70	0.85	YES	
L0002739	0	0.35200E-05	487623.1	3765615.8	575.4	0.00	1.70	0.85	YES	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs
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                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs
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                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                                  ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                           ***        22:23:47
                                                                                                                        PAGE  22
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


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

  URBAN ID   URBAN POP                                   SOURCE IDs
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           2035210.   L0002131    , L0002132    , L0002133    , L0002134    , L0002135    , L0002136    , L0002137    ,
  L0002138    ,
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      L0002139     , L0002140    , L0002141    , L0002142    , L0002143    , L0002144    , L0002145    , L0002146    ,

      L0002147     , L0002148    , L0002149    , L0002150    , L0002151    , L0002152    , L0002153    , L0002154    ,

      L0002155     , L0002156    , L0002157    , L0002158    , L0002159    , L0002160    , L0002161    , L0002162    ,

      L0002163     , L0002164    , L0002165    , L0002166    , L0002167    , L0002168    , L0002169    , L0002170    ,

      L0002171     , L0002172    , L0002173    , L0002174    , L0002175    , L0002176    , L0002177    , L0002178    ,

      L0002179     , L0002180    , L0002181    , L0002182    , L0002183    , L0002184    , L0002185    , L0002186    ,

      L0002187     , L0002188    , L0002189    , L0002190    , L0002191    , L0002192    , L0002193    , L0002194    ,

      L0002195     , L0002196    , L0002197    , L0002198    , L0002199    , L0002200    , L0002201    , L0002202    ,

      L0002203     , L0002204    , L0002205    , L0002206    , L0002207    , L0002208    , L0002209    , L0002210    ,

      L0002211     , L0002212    , L0002213    , L0002214    , L0002215    , L0002216    , L0002217    , L0002218    ,

      L0002219     , L0002220    , L0002221    , L0002222    , L0002223    , L0002224    , L0002225    , L0002226    ,

      L0002227     , L0002228    , L0002229    , L0002230    , L0002231    , L0002232    , L0002233    , L0002234    ,

      L0002235     , L0002236    , L0002237    , L0002238    , L0002239    , L0002240    , L0002241    , L0002242    ,

      L0002243     , L0002244    , L0002245    , L0002246    , L0002247    , L0002248    , L0002249    , L0002250    ,

      L0002251     , L0002252    , L0002253    , L0002254    , L0002255    , L0002256    , L0002257    , L0002258    ,

      L0002259     , L0002260    , L0002261    , L0002262    , L0002263    , L0002264    , L0002265    , L0002266    ,

      L0002267     , L0002268    , L0002269    , L0002270    , L0002271    , L0002272    , L0002273    , L0002274    ,

      L0002275     , L0002276    , L0002277    , L0002278    , L0002279    , L0002280    , L0002281    , L0002282    ,

      L0002283     , L0002284    , L0002285    , L0002286    , L0002287    , L0002288    , L0002289    , L0002290    ,
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 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                                      ***        08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                               ***        22:23:47
                                                                                                                             PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


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


  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------
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```
        L0002291    , L0002292    , L0002293    , L0002294    , L0002295    , L0002296    , L0002297    , L0002298    ,

        L0002299    , L0002300    , L0002301    , L0002302    , L0002303    , L0002304    , L0002305    , L0002306    ,

        L0002307    , L0002308    , L0002309    , L0002310    , L0002311    , L0002312    , L0002313    , L0002314    ,

        L0002315    , L0002316    , L0002317    , L0002318    , L0002319    , L0002320    , L0002321    , L0002322    ,

        L0002323    , L0002324    , L0002325    , L0002326    , L0002327    , L0002328    , L0002329    , L0002330    ,

        L0002331    , L0002332    , L0002333    , L0002334    , L0002335    , L0002336    , L0002337    , L0002338    ,

        L0002339    , L0002340    , L0002341    , L0002342    , L0002343    , L0002344    , L0002345    , L0002346    ,

        L0002347    , L0002348    , L0002349    , L0002350    , L0002351    , L0002352    , L0002353    , L0002354    ,

        L0002355    , L0002356    , L0002357    , L0002358    , L0002359    , L0002360    , L0002361    , L0002362    ,

        L0002363    , L0002364    , L0002365    , L0002366    , L0002367    , L0002368    , L0002369    , L0002370    ,

        L0002371    , L0002372    , L0002373    , L0002374    , L0002375    , L0002376    , L0002377    , L0002378    ,

        L0002379    , L0002380    , L0002381    , L0002382    , L0002383    , L0002384    , L0002385    , L0002386    ,

        L0002387    , L0002388    , L0002389    , L0002390    , L0002391    , L0002392    , L0002393    , L0002394    ,

        L0002395    , L0002396    , L0002397    , L0002398    , L0002399    , L0002400    , L0002401    , L0002402    ,

        L0002403    , L0002404    , L0002405    , L0002406    , L0002407    , L0002408    , L0002409    , L0002410    ,

        L0002411    , L0002412    , L0002413    , L0002414    , L0002415    , L0002416    , L0002417    , L0002418    ,

        L0002419    , L0002420    , L0002421    , L0002422    , L0002423    , L0002424    , L0002425    , L0002426    ,

        L0002427    , L0002428    , L0002429    , L0002430    , L0002431    , L0002432    , L0002433    , L0002434    ,

        L0002435    , L0002436    , L0002437    , L0002438    , L0002439    , L0002440    , L0002441    , L0002442    ,

        L0002443    , L0002444    , L0002445    , L0002446    , L0002447    , L0002448    , L0002449    , L0002450    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

```
        L0002451    , L0002452    , L0002453    , L0002454    , L0002455    , L0002456    , L0002457    , L0002458    ,

        L0002459    , L0002460    , L0002461    , L0002462    , L0002463    , L0002464    , L0002465    , L0002466    ,

        L0002467    , L0002468    , L0002469    , L0002470    , L0002471    , L0002472    , L0002473    , L0002474    ,

        L0002475    , L0002476    , L0002477    , L0002478    , L0002479    , L0002480    , L0002481    , L0002482    ,

        L0002483    , L0002484    , L0002485    , L0002486    , L0002487    , L0002488    , L0002489    , L0002490    ,

        L0002491    , L0002492    , L0002493    , L0002494    , L0002495    , L0002496    , L0002497    , L0002498    ,

        L0002499    , L0002500    , L0002501    , L0002502    , L0002503    , L0002504    , L0002505    , L0002506    ,

        L0002507    , L0002508    , L0002509    , L0002510    , L0002511    , L0002512    , L0002513    , L0002514    ,

        L0002515    , L0002516    , L0002517    , L0002518    , L0002519    , L0002520    , L0002521    , L0002522    ,

        L0002523    , L0002524    , L0002525    , L0002526    , L0002527    , L0002528    , L0002529    , L0002530    ,

        L0002531    , L0002532    , L0002533    , L0002534    , L0002535    , L0002536    , L0002537    , L0002538    ,

        L0002539    , L0002540    , L0002541    , L0002542    , L0002543    , L0002544    , L0002545    , L0002546    ,

        L0002547    , L0002548    , L0002549    , L0002550    , L0002551    , L0002552    , L0002553    , L0002554    ,

        L0002555    , L0002556    , L0002557    , L0002558    , L0002559    , L0002560    , L0002561    , L0002562    ,

        L0002563    , L0002564    , L0002565    , L0002566    , L0002567    , L0002568    , L0002569    , L0002570    ,

        L0002571    , L0002572    , L0002573    , L0002574    , L0002575    , L0002576    , L0002577    , L0002578    ,

        L0002579    , L0002580    , L0002581    , L0002582    , L0002583    , L0002584    , L0002585    , L0002586    ,

        L0002587    , L0002588    , L0002589    , L0002590    , L0002591    , L0002592    , L0002593    , L0002594    ,

        L0002595    , L0002596    , L0002597    , L0002598    , L0002599    , L0002600    , L0002601    , L0002602    ,

        L0002603    , L0002604    , L0002605    , L0002606    , L0002607    , L0002608    , L0002609    , L0002610    ,
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*** MODELOPTs: RegDFAULT CONC ELEV   URBAN   ADJ_U*

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

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

```
      L0002611    , L0002612    , L0002613    , L0002614    , L0002615    , L0002616    , L0002617    , L0002618    ,

      L0002619    , L0002620    , L0002621    , L0002622    , L0002623    , L0002624    , L0002625    , L0002626    ,

      L0002627    , L0002628    , L0002629    , L0002630    , L0002631    , L0002632    , L0002633    , L0002634    ,

      L0002635    , L0002636    , L0002637    , L0002638    , L0002639    , L0002640    , L0002641    , L0002642    ,

      L0002643    , L0002644    , L0002645    , L0002646    , L0002647    , L0002648    , L0002649    , L0002650    ,

      L0002651    , L0002652    , L0002653    , L0002654    , L0002655    , L0002656    , L0002657    , L0002658    ,

      L0002659    , L0002660    , L0002661    , L0002662    , L0002663    , L0002664    , L0002665    , L0002666    ,

      L0002667    , L0002668    , L0002669    , L0002670    , L0002671    , L0002672    , L0002673    , L0002674    ,

      L0002675    , L0002676    , L0002677    , L0002678    , L0002679    , L0002680    , L0002681    , L0002682    ,

      L0002683    , L0002684    , L0002685    , L0002686    , L0002687    , L0002688    , L0002689    , L0002690    ,

      L0002691    , L0002692    , L0002693    , L0002694    , L0002695    , L0002696    , L0002697    , L0002698    ,

      L0002699    , L0002700    , L0002701    , L0002702    , L0002703    , L0002704    , L0002705    , L0002706    ,

      L0002707    , L0002708    , L0002709    , L0002710    , L0002711    , L0002712    , L0002713    , L0002714    ,

      L0002715    , L0002716    , L0002717    , L0002718    , L0002719    , L0002720    , L0002721    , L0002722    ,

      L0002723    , L0002724    , L0002725    , L0002726    , L0002727    , L0002728    , L0002729    , L0002730    ,

      L0002731    , L0002732    , L0002733    , L0002734    , L0002735    , L0002736    , L0002737    , L0002738    ,

      L0002739    ,
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

```
    486627.2,   486677.2,   486727.2,   486777.2,   486827.2,   486877.2,   486927.2,   486977.2,   487027.2,   487077.2,
    487127.2,   487177.2,   487227.2,   487277.2,   487327.2,   487377.2,   487427.2,   487477.2,   487527.2,   487577.2,
    487627.2,
```

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

     3765628.5, 3765678.5, 3765728.5, 3765778.5, 3765828.5, 3765878.5, 3765928.5, 3765978.5, 3766028.5, 3766078.5,
     3766128.5, 3766178.5, 3766228.5, 3766278.5, 3766328.5, 3766378.5, 3766428.5, 3766478.5, 3766528.5, 3766578.5,
     3766628.5,
```

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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                      ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055               ***        22:23:47
                                                                                                            PAGE  27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

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


                                  * ELEVATION HEIGHTS IN METERS *


      Y-COORD  |                                    X-COORD (METERS)
      (METERS) |   486627.18    486677.18    486727.18    486777.18    486827.18    486877.18    486927.18    486977.18    487027.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

     3766628.46 |      544.20       545.30       544.90       547.20       550.40       554.20       558.10       558.20       556.00
     3766578.46 |      548.60       552.30       553.20       550.10       551.10       556.50       559.20       561.60       564.60
     3766528.46 |      551.20       554.10       555.80       556.00       554.60       555.90       558.90       561.50       565.40
     3766478.46 |      550.00       553.70       554.60       556.80       559.50       561.20       561.40       563.40       564.50
     3766428.46 |      549.50       550.50       551.80       552.00       554.70       560.20       564.40       563.80       558.40
     3766378.46 |      548.90       550.20       548.70       546.10       549.70       552.50       554.80       554.10       554.10
     3766328.46 |      544.90       548.20       546.60       543.30       544.40       546.10       547.80       551.20       555.30
     3766278.46 |      542.10       543.90       543.30       541.90       541.60       545.30       552.20       559.30       563.90
     3766228.46 |      538.30       539.20       540.10       539.50       543.20       548.20       554.10       560.70       569.10
     3766178.46 |      529.40       533.30       536.00       539.10       544.60       553.20       563.20       566.40       564.40
     3766128.46 |      527.10       530.90       533.50       541.80       554.20       564.90       567.50       560.40       562.80
     3766078.46 |      527.50       529.40       531.80       542.90       552.80       554.70       555.40       552.50       553.40
     3766028.46 |      530.00       531.30       532.30       534.90       540.10       543.10       546.30       547.40       550.50
     3765978.46 |      532.50       531.30       533.30       535.70       537.60       539.20       541.10       543.60       547.20
     3765928.46 |      548.90       538.10       534.90       535.70       537.80       540.00       542.10       543.80       545.10
     3765878.46 |      567.50       554.20       542.70       539.70       540.60       542.50       543.50       546.10       548.70
     3765828.46 |      573.70       561.60       549.80       553.60       558.90       551.90       555.90       560.80       572.20
     3765778.46 |      575.00       574.30       566.80       568.70       575.50       567.00       563.50       575.00       581.50
     3765728.46 |      574.40       576.50       577.70       580.90       585.60       582.20       578.20       583.70       592.00
     3765678.46 |      581.00       578.80       579.80       583.50       587.90       590.50       592.20       594.60       598.70
     3765628.46 |      589.60       588.90       582.20       586.30       591.10       593.20       594.80       596.80       601.00
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*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                      ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055               ***        22:23:47
                                                                                                            PAGE  28
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                          *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART ***


                                  * ELEVATION HEIGHTS IN METERS *
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  Y-COORD |                                         X-COORD (METERS)
  (METERS)|    487077.18    487127.18    487177.18    487227.18    487277.18    487327.18    487377.18    487427.18    487477.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3766628.46 |       554.80       556.50       560.60       564.70       566.90       568.10       569.60       572.00       574.30
 3766578.46 |       564.30       560.70       560.30       564.00       568.50       571.20       572.40       574.30       576.70
 3766528.46 |       568.30       568.90       567.10       565.00       566.80       572.00       574.10       576.40       579.30
 3766478.46 |       564.10       568.30       570.70       570.80       568.10       570.90       574.60       577.70       582.00
 3766428.46 |       557.60       561.10       565.40       571.50       573.20       575.60       578.20       581.30       590.40
 3766378.46 |       560.70       563.00       569.20       576.20       580.20       585.80       591.00       592.80       592.90
 3766328.46 |       562.50       569.60       572.90       582.10       590.20       594.50       592.50       596.20       599.70
 3766278.46 |       566.00       574.20       585.00       589.60       595.40       589.20       584.10       589.70       591.00
 3766228.46 |       573.80       578.10       588.60       582.90       585.00       581.70       577.70       581.80       582.80
 3766178.46 |       572.80       579.70       582.40       577.30       577.30       574.20       573.10       577.10       583.60
 3766128.46 |       570.90       571.10       576.80       571.80       569.40       569.10       571.50       578.60       588.50
 3766078.46 |       557.60       562.50       570.70       565.30       565.60       567.90       571.00       574.80       581.40
 3766028.46 |       553.70       556.90       561.10       559.60       561.60       568.60       580.20       581.30       579.80
 3765978.46 |       550.10       554.90       558.40       557.30       563.80       572.30       580.80       593.60       598.00
 3765928.46 |       547.20       550.50       556.40       557.40       570.10       584.80       590.90       598.40       611.40
 3765878.46 |       548.90       550.20       555.20       554.80       562.60       576.90       580.70       594.40       605.10
 3765828.46 |       570.60       560.70       555.30       554.90       557.90       563.90       574.50       586.80       602.20
 3765778.46 |       590.70       580.80       565.10       558.80       557.90       560.10       566.60       580.40       601.40
 3765728.46 |       594.90       582.90       569.60       562.80       559.40       560.00       562.60       566.50       576.00
 3765678.46 |       600.80       595.30       579.00       569.40       567.30       562.00       561.90       564.80       567.50
 3765628.46 |       602.80       597.50       580.20       575.40       577.30       575.80       564.50       564.20       566.00

 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                              ***      08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                       ***      22:23:47
                                                                                                                  PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN  ADJ_U*


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


                                    * ELEVATION HEIGHTS IN METERS *

  Y-COORD |                                         X-COORD (METERS)
  (METERS)|    487527.18    487577.18    487627.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 3766628.46 |       575.90       577.20       579.40
 3766578.46 |       578.80       580.50       582.70
 3766528.46 |       581.80       583.90       586.90
 3766478.46 |       585.50       588.20       593.90
 3766428.46 |       596.40       591.70       600.40
 3766378.46 |       600.80       599.00       598.00
 3766328.46 |       598.80       603.10       602.00
 3766278.46 |       593.70       594.50       605.50
 3766228.46 |       586.00       589.60       596.50
 3766178.46 |       591.20       596.00       594.60
 3766128.46 |       598.70       603.50       608.30
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3766078.46 |         588.40        595.50        609.30
3766028.46 |         583.20        595.20        603.70
3765978.46 |         589.20        589.40        595.70
3765928.46 |         604.20        602.40        595.90
3765878.46 |         617.00        620.70        615.80
3765828.46 |         618.90        616.80        626.10
3765778.46 |         601.20        607.60        633.60
3765728.46 |         586.20        611.70        619.10
3765678.46 |         572.80        586.30        596.40
3765628.46 |         569.10        572.30        576.40
```

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2042-2055   ***   22:23:47
                                                                                                               PAGE 30
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

                                     * HILL HEIGHT SCALES IN METERS *

    Y-COORD | X-COORD (METERS)
    (METERS) | 486627.18   486677.18   486727.18   486777.18   486827.18   486877.18   486927.18   486977.18   487027.18
- -

  3766628.46 | 555.40   555.70   556.30   555.20   550.40   554.20   558.10   564.30   569.00
  3766578.46 | 548.60   552.30   555.70   559.60   559.90   556.50   559.20   561.60   564.60
  3766528.46 | 551.20   554.10   555.80   556.00   563.50   563.70   558.90   561.50   565.40
  3766478.46 | 550.00   553.70   554.60   556.80   559.50   563.50   561.40   563.40   596.40
  3766428.46 | 549.50   550.50   551.80   563.50   563.80   563.80   565.40   563.80   596.40
  3766378.46 | 548.90   550.20   551.50   590.00   595.20   596.40   596.40   596.40   600.20
  3766328.46 | 544.90   551.70   551.70   596.40   596.40   596.40   596.40   599.90   600.20
  3766278.46 | 542.10   551.70   590.00   596.40   596.40   637.60   596.40   596.40   596.40
  3766228.46 | 566.60   589.10   595.20   652.40   652.40   596.40   596.40   596.40   595.20
  3766178.46 | 652.40   652.40   652.40   652.40   652.40   595.20   589.10   590.00   596.40
  3766128.46 | 655.00   655.00   655.00   652.40   569.30   566.60   567.50   637.60   652.40
  3766078.46 | 655.00   667.30   671.50   654.70   652.40   652.40   652.40   667.30   671.50
  3766028.46 | 655.00   668.60   671.50   671.50   671.50   671.50   671.50   671.50   671.50
  3765978.46 | 655.00   671.50   671.50   671.50   671.50   671.50   671.50   671.50   671.50
  3765928.46 | 652.40   655.00   671.50   671.50   671.50   671.50   671.50   671.50   671.50
  3765878.46 | 574.70   652.40   671.50   671.50   671.50   671.50   671.50   671.50   671.50
  3765828.46 | 573.70   606.20   655.00   655.00   655.00   671.50   671.50   671.50   667.30
  3765778.46 | 588.60   589.70   610.60   652.40   607.90   655.00   671.50   655.00   655.00
  3765728.46 | 594.40   593.10   588.70   588.00   587.10   609.80   655.00   654.70   652.40
  3765678.46 | 591.40   595.00   595.00   591.40   587.90   590.50   592.20   594.60   598.70
  3765628.46 | 589.60   588.90   597.00   592.50   591.10   593.20   594.80   607.90   602.20

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands   ***   08/11/21
*** AERMET - VERSION 16216 ***   *** Freeway-related DPM Concentrations 2042-2055   ***   22:23:47
                                                                                                               PAGE 31
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                 Apx - 315
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* HILL HEIGHT SCALES IN METERS *

Y-COORD	X-COORD (METERS)								
(METERS)	487077.18	487127.18	487177.18	487227.18	487277.18	487327.18	487377.18	487427.18	487477.18
3766628.46	596.40	596.40	596.40	564.70	566.90	601.00	609.90	616.50	616.70
3766578.46	568.00	596.40	600.80	601.00	601.00	601.90	609.90	616.50	616.70
3766528.46	568.30	568.90	596.40	601.90	604.20	604.20	609.90	616.50	616.70
3766478.46	596.40	596.40	596.40	600.20	605.20	609.90	614.50	616.50	616.50
3766428.46	600.20	600.80	601.00	600.80	601.90	604.20	606.80	609.90	604.20
3766378.46	599.90	600.80	600.20	599.90	599.90	599.90	599.90	600.20	604.20
3766328.46	599.90	596.40	596.40	596.40	596.40	594.50	599.90	599.90	599.70
3766278.46	596.40	596.40	595.20	595.20	595.40	596.40	600.80	600.80	608.90
3766228.46	595.20	596.00	588.60	596.40	596.40	637.60	650.80	650.80	660.00
3766178.46	595.20	590.00	590.00	637.60	637.60	660.00	660.00	660.00	660.00
3766128.46	590.00	637.60	637.60	650.80	660.00	668.60	668.60	660.00	660.00
3766078.46	668.60	667.30	652.40	671.50	671.50	671.50	671.50	671.50	667.30
3766028.46	671.50	671.50	671.50	671.50	671.50	671.50	668.60	668.60	671.50
3765978.46	671.50	671.50	671.50	671.50	671.50	671.50	671.50	660.00	660.00
3765928.46	671.50	671.50	671.50	671.50	671.50	668.60	660.00	650.80	637.60
3765878.46	671.50	671.50	671.50	671.50	671.50	671.50	671.50	668.60	650.80
3765828.46	671.50	671.50	671.50	671.50	671.50	671.50	671.50	671.50	668.60
3765778.46	652.40	671.50	671.50	671.50	671.50	671.50	671.50	671.50	671.50
3765728.46	652.40	671.50	671.50	671.50	671.50	671.50	671.50	671.50	671.50
3765678.46	652.40	655.00	671.50	671.50	671.50	671.50	671.50	671.50	671.50
3765628.46	652.40	655.00	671.50	671.50	671.50	671.50	671.50	671.50	671.50

```
*** AERMOD - VERSION 21112  ***    *** Terracina at Redlands                                                  ***        08/11/21
*** AERMET - VERSION  16216 ***    *** Freeway-related DPM Concentrations 2042-2055                            ***        22:23:47
                                                                                                                          PAGE  32
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

* HILL HEIGHT SCALES IN METERS *

Y-COORD	X-COORD (METERS)		
(METERS)	487527.18	487577.18	487627.18
3766628.46	617.40	618.70	618.70
3766578.46	617.40	618.70	619.50
3766528.46	617.40	618.70	618.70
3766478.46	617.40	617.40	617.40
3766428.46	600.30	617.40	611.50
3766378.46	600.80	604.20	617.40
3766328.46	604.20	604.20	613.90
3766278.46	627.70	632.70	608.90

```
3766228.46 |         660.00       660.00       635.40
3766178.46 |         650.80       649.20       660.00
3766128.46 |         637.60       632.70       632.70
3766078.46 |         660.00       660.00       632.70
3766028.46 |         671.50       660.00       660.00
3765978.46 |         669.60       671.50       667.30
3765928.46 |         660.00       660.00       671.50
3765878.46 |         637.60       637.60       660.00
3765828.46 |         637.60       650.80       637.60
3765778.46 |         671.50       671.50       637.60
3765728.46 |         671.50       671.50       667.30
3765678.46 |         671.50       671.50       671.50
3765628.46 |         671.50       671.50       671.50
```

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

   (486910.9, 3766071.2,   552.6,   654.1,   0.0);   (487071.7, 3766032.3,   553.8,   671.5,   0.0);
   (487146.1, 3766030.0,   559.4,   671.5,   0.0);   (487280.7, 3766020.6,   561.9,   671.5,   0.0);
   (487485.2, 3766054.5,   580.3,   669.6,   0.0);   (487507.5, 3765926.8,   608.6,   650.8,   0.0);
   (487080.8, 3766103.6,   563.8,   652.4,   0.0);   (486821.5, 3766197.7,   542.8,   652.4,   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   - - RECEPTOR LOCATION - -   DISTANCE
                      ID   XR (METERS)   YR (METERS)   (METERS)
                -

                    L0002293   487177.2   3765878.5   0.17
                    L0002323   487277.2   3765828.5   -0.82
                    L0002324   487277.2   3765828.5   -2.57
                    L0002325   487277.2   3765828.5   0.93
                    L0002354   487377.2   3765778.5   0.96
                    L0002455   486677.2   3766028.5   0.95
                    L0002456   486677.2   3766028.5   -0.76
                    L0002499   486827.2   3765978.5   0.35
                    L0002542   486977.2   3765928.5   -0.43
                    L0002543   486977.2   3765928.5   -0.21

```
                     L0002615              487227.2    3765828.5            0.43
                     L0002616              487227.2    3765828.5           -2.73
                     L0002617              487227.2    3765828.5           -0.22
                     L0002646              487327.2    3765778.5            0.42
                     L0002647              487327.2    3765778.5           -0.02

 *** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                      ***         08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055               ***         22:23:47
                                                                                                              PAGE  35
 *** 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 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  ***   *** Terracina at Redlands                                      ***         08/11/21
 *** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055               ***         22:23:47
                                                                                                              PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


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

   Surface file:   E:\New MET data\RDLD_V9_ADJU\RDLD_v9.SFC                        Met Version:  16216
   Profile file:   E:\New MET data\RDLD_V9_ADJU\RDLD_v9.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3171              Upper air station no.:     3190
             Name: UNKNOWN                              Name: UNKNOWN
             Year:   2012                               Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR    H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01  -10.6  0.149 -9.000 -9.000 -999.  138.     26.7  0.32   3.22   1.00    1.30  110.    9.1  285.4    5.5
```

Apx - 318

```
12 01 01   1 02    -5.0  0.102 -9.000 -9.000  -999.    78.     17.9  0.32   3.22  1.00    0.90  130.    9.1  284.5    5.5
12 01 01   1 03    -5.0  0.102 -9.000 -9.000  -999.    78.     17.9  0.32   3.22  1.00    0.90  100.    9.1  285.0    5.5
12 01 01   1 04    -5.0  0.102 -9.000 -9.000  -999.    78.     17.9  0.32   3.22  1.00    0.90  107.    9.1  284.6    5.5
12 01 01   1 05   -10.7  0.149 -9.000 -9.000  -999.   138.     26.7  0.32   3.22  1.00    1.30   98.    9.1  284.9    5.5
12 01 01   1 06    -5.0  0.102 -9.000 -9.000  -999.    78.     17.9  0.32   3.22  1.00    0.90   86.    9.1  284.5    5.5
12 01 01   1 07    -5.0  0.102 -9.000 -9.000  -999.    78.     17.9  0.32   3.22  1.00    0.90   91.    9.1  284.0    5.5
12 01 01   1 08    -4.0  0.102 -9.000 -9.000  -999.    78.     22.9  0.32   3.22  0.54    0.90  107.    9.1  285.0    5.5
12 01 01   1 09    44.6  0.237  0.382  0.006    43.   276.    -25.6  0.15   3.22  0.33    2.10   81.   10.1  289.1    5.5
12 01 01   1 10   134.3  0.111  0.882  0.008   176.    99.     -1.0  0.32   3.22  0.26    0.40   72.    9.1  295.1    5.5
12 01 01   1 11   199.8  0.409  1.429  0.005   503.   627.    -29.4  0.15   3.22  0.23    3.68   78.   10.1  297.9    5.5
12 01 01   1 12   232.3  0.300  1.889  0.005   999.   402.    -10.0  0.32   3.22  0.22    1.80  333.    9.1  299.4    5.5
12 01 01   1 13   230.0  0.300  2.134  0.005  1453.   394.    -10.1  0.32   3.22  0.22    1.80   72.    9.1  300.4    5.5
12 01 01   1 14   194.0  0.294  2.109  0.005  1663.   382.    -11.2  0.32   3.22  0.24    1.80  277.    9.1  301.0    5.5
12 01 01   1 15   126.3  0.378  1.872  0.005  1784.   557.    -36.5  0.32   3.22  0.27    2.70  243.    9.1  301.0    5.5
12 01 01   1 16    39.5  0.199  1.278  0.005  1817.   240.    -17.2  0.32   3.22  0.36    1.30  274.    9.1  300.1    5.5
12 01 01   1 17    -4.7  0.101 -9.000 -9.000  -999.    85.     19.0  0.32   3.22  0.65    0.90  252.    9.1  298.2    5.5
12 01 01   1 18    -4.9  0.102 -9.000 -9.000  -999.    78.     18.2  0.32   3.22  1.00    0.90  116.    9.1  296.4    5.5
12 01 01   1 19   -18.8  0.204 -9.000 -9.000  -999.   220.     45.6  0.15   3.22  1.00    2.27   79.   10.1  292.2    5.5
12 01 01   1 20    -5.0  0.102 -9.000 -9.000  -999.    83.     18.1  0.32   3.22  1.00    0.90   95.    9.1  290.2    5.5
12 01 01   1 21    -5.0  0.102 -9.000 -9.000  -999.    78.     18.0  0.32   3.22  1.00    0.90   99.    9.1  287.8    5.5
12 01 01   1 22    -5.0  0.102 -9.000 -9.000  -999.    78.     18.0  0.32   3.22  1.00    0.90  110.    9.1  287.6    5.5
12 01 01   1 23   -10.6  0.149 -9.000 -9.000  -999.   138.     26.8  0.32   3.22  1.00    1.30   89.    9.1  287.2    5.5
12 01 01   1 24    -5.0  0.102 -9.000 -9.000  -999.    78.     17.9  0.32   3.22  1.00    0.90  105.    9.1  285.9    5.5


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01    5.5 0 -999.  -99.00   285.5  99.0  -99.00  -99.00
12 01 01 01    9.1 1  110.    1.30  -999.0  99.0  -99.00  -99.00


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

*** AERMOD - VERSION 21112  ***   *** Terracina at Redlands                                                      ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                               ***        22:23:47
                                                                                                                            PAGE  37
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                               INCLUDING SOURCE(S):    L0002131  , L0002132   , L0002133  , L0002134   , L0002135   ,
                  L0002136   , L0002137   , L0002138   , L0002139   , L0002140   , L0002141   , L0002142   , L0002143   ,
                  L0002144   , L0002145   , L0002146   , L0002147   , L0002148   , L0002149   , L0002150   , L0002151   ,
                  L0002152   , L0002153   , L0002154   , L0002155   , L0002156   , L0002157   , L0002158   , . . .      ,

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

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

   Y-COORD  |                                       X-COORD (METERS)
   (METERS) |    486627.18    486677.18    486727.18    486777.18    486827.18    486877.18    486927.18    486977.18    487027.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3766628.46 |    0.00437    0.00448    0.00463    0.00465    0.00459    0.00445    0.00427    0.00430    0.00444
3766578.46 |    0.00463    0.00460    0.00470    0.00502    0.00507    0.00479    0.00467    0.00454    0.00435
3766528.46 |    0.00499    0.00500    0.00505    0.00519    0.00542    0.00541    0.00524    0.00507    0.00478
3766478.46 |    0.00567    0.00564    0.00578    0.00577    0.00566    0.00561    0.00567    0.00552    0.00544
3766428.46 |    0.00646    0.00672    0.00688    0.00710    0.00698    0.00648    0.00610    0.00621    0.00682
3766378.46 |    0.00748    0.00778    0.00836    0.00898    0.00877    0.00854    0.00831    0.00842    0.00837
3766328.46 |    0.00928    0.00946    0.01024    0.01105    0.01114    0.01103    0.01081    0.01029    0.00959
3766278.46 |    0.01164    0.01233    0.01315    0.01378    0.01397    0.01350    0.01221    0.01065    0.00965
3766228.46 |    0.01531    0.01674    0.01754    0.01798    0.01745    0.01621    0.01446    0.01249    0.01033
3766178.46 |    0.02196    0.02455    0.02517    0.02458    0.02274    0.01889    0.01469    0.01354    0.01402
3766128.46 |    0.03794    0.04238    0.04065    0.03572    0.02527    0.01881    0.01737    0.02028    0.01864
3766078.46 |    0.34312    0.12970    0.08904    0.06314    0.04163    0.03686    0.03427    0.03505    0.03214
3766028.46 |    0.17945    0.36708    0.31282    0.38062    0.14563    0.09830    0.07492    0.06203    0.05163
3765978.46 |    0.04827    0.07390    0.11289    0.21875    0.42991    0.31976    0.37186    0.14857    0.10058
3765928.46 |    0.02276    0.03827    0.05028    0.06460    0.08578    0.12311    0.22589    0.37772    0.40177
3765878.46 |    0.01219    0.01915    0.03097    0.03848    0.04610    0.05553    0.06871    0.08838    0.12508
3765828.46 |    0.00928    0.01309    0.02063    0.02217    0.02254    0.03243    0.03514    0.03678    0.03334
3765778.46 |    0.00774    0.00882    0.01142    0.01248    0.01250    0.01692    0.02146    0.01894    0.02026
3765728.46 |    0.00687    0.00738    0.00805    0.00852    0.00893    0.01041    0.01247    0.01295    0.01371
3765678.46 |    0.00551    0.00628    0.00679    0.00703    0.00725    0.00773    0.00835    0.00902    0.00960
3765628.46 |    0.00433    0.00475    0.00579    0.00588    0.00593    0.00625    0.00667    0.00708    0.00728
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                        *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                            INCLUDING SOURCE(S):     L0002131   , L0002132   , L0002133   , L0002134   , L0002135   ,
               L0002136   , L0002137   , L0002138   , L0002139   , L0002140   , L0002141   , L0002142   , L0002143   ,
               L0002144   , L0002145   , L0002146   , L0002147   , L0002148   , L0002149   , L0002150   , L0002151   ,
               L0002152   , L0002153   , L0002154   , L0002155   , L0002156   , L0002157   , L0002158   , . . .     ,
```

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

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

```
   Y-COORD |                                            X-COORD (METERS)
   (METERS)|    487077.18    487127.18    487177.18    487227.18    487277.18    487327.18    487377.18    487427.18    487477.18
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

3766628.46 |    0.00449    0.00438    0.00412    0.00384    0.00368    0.00355    0.00341    0.00321    0.00302
3766578.46 |    0.00437    0.00459    0.00457    0.00428    0.00395    0.00371    0.00357    0.00338    0.00316
3766528.46 |    0.00456    0.00449    0.00459    0.00468    0.00448    0.00404    0.00381    0.00357    0.00330
3766478.46 |    0.00547    0.00507    0.00481    0.00474    0.00488    0.00456    0.00417    0.00384    0.00344
3766428.46 |    0.00686    0.00644    0.00592    0.00525    0.00499    0.00467    0.00434    0.00398    0.00319
3766378.46 |    0.00749    0.00712    0.00629    0.00541    0.00490    0.00427    0.00372    0.00348    0.00336
3766328.46 |    0.00839    0.00725    0.00670    0.00546    0.00451    0.00402    0.00406    0.00364    0.00327
3766278.46 |    0.00917    0.00766    0.00603    0.00536    0.00465    0.00512    0.00553    0.00473    0.00442
3766228.46 |    0.00924    0.00832    0.00656    0.00720    0.00670    0.00696    0.00731    0.00645    0.00605
3766178.46 |    0.01143    0.00968    0.00892    0.00966    0.00936    0.00964    0.00944    0.00832    0.00692
```

```
3766128.46 |     0.01499     0.01452     0.01238     0.01338     0.01354     0.01297     0.01173     0.00963     0.00736
3766078.46 |     0.02763     0.02335     0.01827     0.01972     0.01845     0.01658     0.01462     0.01270     0.01039
3766028.46 |     0.04357     0.03712     0.03124     0.02933     0.02591     0.02104     0.01516     0.01380     0.01324
3765978.46 |     0.07657     0.06001     0.04873     0.04286     0.03438     0.02579     0.01937     0.01358     0.01140
3765928.46 |     0.25586     0.12877     0.08792     0.06776     0.04350     0.02665     0.02103     0.01644     0.01234
3765878.46 |     0.23693     0.53498     0.44343     0.15159     0.09110     0.04813     0.03722     0.02398     0.01763
3765828.46 |     0.04338     0.08329     0.16428     0.33000     0.32837     0.14450     0.07324     0.04143     0.02558
3765778.46 |     0.02338     0.02941     0.05617     0.09059     0.15806     0.37984     0.39421     0.09510     0.04141
3765728.46 |     0.01555     0.01996     0.03334     0.04891     0.06582     0.09534     0.19476     0.33117     0.30549
3765678.46 |     0.01052     0.01284     0.01958     0.03032     0.03874     0.05098     0.06680     0.09939     0.22136
3765628.46 |     0.00782     0.00950     0.01535     0.02016     0.02266     0.02845     0.04023     0.04922     0.06391
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                       *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                             INCLUDING SOURCE(S):    L0002131   , L0002132   , L0002133   , L0002134   , L0002135    ,
                  L0002136   , L0002137   , L0002138   , L0002139   , L0002140   , L0002141   , L0002142   , L0002143    ,
                  L0002144   , L0002145   , L0002146   , L0002147   , L0002148   , L0002149   , L0002150   , L0002151    ,
                  L0002152   , L0002153   , L0002154   , L0002155   , L0002156   , L0002157   , L0002158   , . . .       ,

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

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

     Y-COORD  |                                               X-COORD (METERS)
    (METERS)  |     487527.18    487577.18    487627.18
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

   3766628.46 |      0.00287      0.00273      0.00255
   3766578.46 |      0.00297      0.00279      0.00260
   3766528.46 |      0.00306      0.00285      0.00260
   3766478.46 |      0.00312      0.00285      0.00244
   3766428.46 |      0.00273      0.00290      0.00235
   3766378.46 |      0.00277      0.00276      0.00270
   3766328.46 |      0.00320      0.00283      0.00277
   3766278.46 |      0.00400      0.00376      0.00291
   3766228.46 |      0.00539      0.00473      0.00388
   3766178.46 |      0.00556      0.00475      0.00462
   3766128.46 |      0.00561      0.00484      0.00421
   3766078.46 |      0.00834      0.00667      0.00491
   3766028.46 |      0.01138      0.00809      0.00639
   3765978.46 |      0.01237      0.01120      0.00887
   3765928.46 |      0.01186      0.01081      0.01077
   3765878.46 |      0.01348      0.01127      0.01015
   3765828.46 |      0.01800      0.01510      0.01191
   3765778.46 |      0.03107      0.02243      0.01508
   3765728.46 |      0.08537      0.03425      0.02280
   3765678.46 |      0.31164      0.18048      0.05079
```

```
   3765628.46 |         0.09585       0.25037       0.22222
```

```
*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                            ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                     ***        22:23:47
                                                                                                                 PAGE  40
   *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL     ***
                                  INCLUDING SOURCE(S):     L0002131   , L0002132   , L0002133   , L0002134   , L0002135   ,
                      L0002136   , L0002137   , L0002138   , L0002139   , L0002140   , L0002141   , L0002142   , L0002143   ,
                      L0002144   , L0002145   , L0002146   , L0002147   , L0002148   , L0002149   , L0002150   , L0002151   ,
                      L0002152   , L0002153   , L0002154   , L0002155   , L0002156   , L0002157   , L0002158   , . . .      ,

                                       *** 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         486910.88    3766071.19       0.04066               487071.68    3766032.30       0.04262
         487146.10    3766029.99       0.03374               487280.73    3766020.65       0.02682
         487485.24    3766054.47       0.01158               487507.54    3765926.79       0.01188
         487080.82    3766103.59       0.02025               486821.49    3766197.66       0.02077
```

```
*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                                            ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055                     ***        22:23:47
                                                                                                                 PAGE  41
   *** 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      0.53498 AT (  487127.18,  3765878.46,   550.20,   671.50,   0.00)  GC  UCART1
         2ND HIGHEST VALUE IS      0.44343 AT (  487177.18,  3765878.46,   555.20,   671.50,   0.00)  GC  UCART1
         3RD HIGHEST VALUE IS      0.42991 AT (  486827.18,  3765978.46,   537.60,   671.50,   0.00)  GC  UCART1
         4TH HIGHEST VALUE IS      0.40177 AT (  487027.18,  3765928.46,   545.10,   671.50,   0.00)  GC  UCART1
         5TH HIGHEST VALUE IS      0.39421 AT (  487377.18,  3765778.46,   566.60,   671.50,   0.00)  GC  UCART1
         6TH HIGHEST VALUE IS      0.38062 AT (  486777.18,  3766028.46,   534.90,   671.50,   0.00)  GC  UCART1
         7TH HIGHEST VALUE IS      0.37984 AT (  487327.18,  3765778.46,   560.10,   671.50,   0.00)  GC  UCART1
         8TH HIGHEST VALUE IS      0.37772 AT (  486977.18,  3765928.46,   543.80,   671.50,   0.00)  GC  UCART1
         9TH HIGHEST VALUE IS      0.37186 AT (  486927.18,  3765978.46,   541.10,   671.50,   0.00)  GC  UCART1
        10TH HIGHEST VALUE IS      0.36708 AT (  486677.18,  3766028.46,   531.30,   668.60,   0.00)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
```

```
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

*** AERMOD - VERSION 21112 ***   *** Terracina at Redlands                             ***        08/11/21
*** AERMET - VERSION  16216 ***   *** Freeway-related DPM Concentrations 2042-2055      ***        22:23:47
                                                                                                  PAGE  42
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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

A Total of         0 Fatal Error Message(s)
A Total of         2 Warning Message(s)
A Total of       388 Informational Message(s)

A Total of     43848 Hours Were Processed

A Total of       191 Calm Hours Identified

A Total of       197 Missing Hours Identified (  0.45 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186   1339       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
ME W187   1339       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


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

EMFAC2017 for San Bernardino (SC)   PM10 Running Exhaust   Averages at bottom of sheet

Area	Season	Veh	Fuel	MdlYr	Speed (Miles/hr)	2025 (gms/mile)	2026 (gms/mile)	2027 (gms/mile)	2028 (gms/mile)	2029 (gms/mile)	2030 (gms/mile)	2031 (gms/mile)	2032 (gms/mile)	2033 (gms/mile)	2034 (gms/mile)	2035 (gms/mile)	2036 (gms/mile)
San Bernardino (SC)	Annual	LDA	GAS	AllMYr	70	0.001261	0.00121	0.001151	0.001084	0.001019	0.000957	0.0009	0.000846	0.000797	0.000752	0.000711	0.000675
San Bernardino (SC)	Annual	LDA	DSL	AllMYr	70	0.004164	0.003337	0.002727	0.002254	0.001922	0.001604	0.001441	0.001251	0.001139	0.001041	0.000953	0.000873
San Bernardino (SC)	Annual	LDT1	GAS	AllMYr	70	0.00168	0.001567	0.001453	0.00134	0.001237	0.001144	0.001058	0.000983	0.000917	0.000858	0.000807	0.000764
San Bernardino (SC)	Annual	LDT1	DSL	AllMYr	70	0.139327	0.119018	0.07144	0.049327	0.022827	0.011043	0.007116	0.006534	0.005011	0.004743	0.004534	0.004352
San Bernardino (SC)	Annual	LDT2	GAS	AllMYr	70	0.001302	0.00125	0.001188	0.001118	0.00105	0.000987	0.000929	0.000876	0.000826	0.00078	0.000738	0.000701
San Bernardino (SC)	Annual	LDT2	DSL	AllMYr	70	0.003726	0.003597	0.003326	0.003277	0.003249	0.003217	0.003218	0.00321	0.003214	0.003227	0.003231	0.003241
San Bernardino (SC)	Annual	LHDT1	GAS	AllMYr	60	0.000927	0.000921	0.00092	0.00092	0.000917	0.000913	0.000906	0.000903	0.000902	0.000895	0.00089	0.000891
San Bernardino (SC)	Annual	LHDT1	DSL	AllMYr	60	0.015609	0.014546	0.013524	0.012557	0.011646	0.010799	0.010024	0.009337	0.008713	0.008153	0.007626	0.007158
San Bernardino (SC)	Annual	LHDT2	GAS	AllMYr	60	0.00082	0.000822	0.000824	0.000828	0.000831	0.000836	0.00084	0.000845	0.00085	0.000856	0.00086	0.000865
San Bernardino (SC)	Annual	LHDT2	DSL	AllMYr	60	0.015766	0.015219	0.014703	0.014233	0.013807	0.013415	0.013035	0.012718	0.012417	0.012125	0.011823	0.011641
San Bernardino (SC)	Annual	MDV	GAS	AllMYr	60	0.00107	0.001029	0.000981	0.000927	0.000876	0.000828	0.000783	0.000741	0.000701	0.000664	0.000629	0.000599
San Bernardino (SC)	Annual	MDV	DSL	AllMYr	60	0.003161	0.0029	0.002556	0.002248	0.002008	0.001806	0.001642	0.001514	0.001403	0.00129	0.001194	0.001108
San Bernardino (SC)	Annual	MHDT	GAS	AllMYr	55	0.000784	0.000791	0.000797	0.000803	0.000809	0.000814	0.000818	0.000822	0.000826	0.000828	0.000831	0.000833
San Bernardino (SC)	Annual	MHDT	DSL	AllMYr	55	0.010109	0.010189	0.010227	0.010285	0.010328	0.01035	0.010359	0.010366	0.010371	0.010358	0.010327	0.010292
San Bernardino (SC)	Annual	HHDT	GAS	AllMYr	55	0.000829	0.000824	0.00083	0.000835	0.000837	0.000822	0.00082	0.000826	0.00083	0.000833	0.000836	0.000838
San Bernardino (SC)	Annual	HHDT	DSL	AllMYr	55	0.023525	0.023503	0.023431	0.023326	0.023174	0.023021	0.022893	0.022768	0.022647	0.0225	0.022365	0.022271

		1 yr	14 yr	14 yr	2 yr
		2025	2028-2041	2042-2055	2026-2027
LDA	70	0.00416441	0.0011499	0.0005727	0.003032
LDT1	70	0.13932698	0.0096191	0.0034425	0.095229
LDT2	70	0.00372582	0.0032427	0.0032978	0.003461
MDV	60	0.00316129	0.0013374	0.0006632	0.002728
LHDT1	60	0.01560878	0.0082943	0.0044608	0.014035
LHDT2	60	0.01576588	0.0122328	0.0105535	0.014961
MHDT	55	0.010109	0.010282	0.010028	0.010208
HHDT	55	0.023525	0.022548	0.022173	0.023467

2037 (gms/mile)	2038 (gms/mile)	2039 (gms/mile)	2040 (gms/mile)	2041 (gms/mile)	2042 (gms/mile)	2043 (gms/mile)	2044 (gms/mile)	2045 (gms/mile)	2046 (gms/mile)	2047 (gms/mile)	2048 (gms/mile)	2049 (gms/mile)	2050 (gms/mile)	2051 (gms/mile)	2052 (gms/mile)	2053 (gms/mile)	2054 (gms/mile)	2055 (gms/mile)
0.000643	0.000614	0.00059	0.000568	0.000551	0.000537	0.000525	0.000516	0.000508	0.000502	0.000497	0.000493	0.00049	0.000488	0.000488	0.000488	0.000488	0.000488	0.000488
0.000811	0.00076	0.000717	0.00068	0.000652	0.000629	0.000611	0.000596	0.000585	0.000577	0.000569	0.000563	0.000559	0.000555	0.000555	0.000555	0.000555	0.000555	0.000555
0.000727	0.000693	0.000662	0.000636	0.000615	0.000597	0.00058	0.000566	0.000553	0.000542	0.000532	0.000525	0.000518	0.000513	0.000513	0.000513	0.000513	0.000513	0.000513
0.004203	0.003966	0.003779	0.003725	0.003506	0.003491	0.003476	0.003465	0.003453	0.003447	0.00344	0.003434	0.00343	0.003427	0.003427	0.003427	0.003427	0.003427	0.003427
0.000668	0.000638	0.000612	0.00059	0.000573	0.000558	0.000545	0.000534	0.000525	0.000517	0.000511	0.000505	0.000502	0.000499	0.000499	0.000499	0.000499	0.000499	0.000499
0.00325	0.003256	0.003263	0.003269	0.003274	0.003279	0.003283	0.003287	0.003291	0.003295	0.003298	0.003301	0.003304	0.003305	0.003305	0.003305	0.003305	0.003305	0.003305
0.000892	0.000893	0.000893	0.000893	0.000895	0.000897	0.000898	0.000898	0.000898	0.000898	0.000898	0.000898	0.000897	0.000899	0.0009	0.0009	0.0009	0.0009	0.0009
0.006717	0.006328	0.005981	0.005673	0.005409	0.005174	0.004988	0.004817	0.004676	0.004549	0.004442	0.004349	0.004268	0.004198	0.004198	0.004198	0.004198	0.004198	0.004198
0.00087	0.000875	0.000879	0.000883	0.000887	0.00089	0.000892	0.000894	0.000896	0.000898	0.000899	0.0009	0.000901	0.000902	0.000902	0.000902	0.000902	0.000902	0.000902
0.011473	0.01132	0.011182	0.011076	0.010995	0.010939	0.010901	0.010821	0.010754	0.010673	0.010609	0.010546	0.01047	0.010339	0.010339	0.010339	0.010339	0.010339	0.010339
0.000572	0.000548	0.000525	0.000504	0.000487	0.000473	0.00046	0.000449	0.000439	0.000429	0.000421	0.000413	0.00041	0.000407	0.000407	0.000407	0.000407	0.000407	0.000407
0.001017	0.000952	0.000894	0.000844	0.000801	0.000763	0.000733	0.00071	0.00069	0.000673	0.00066	0.000648	0.000638	0.000628	0.000628	0.000628	0.000628	0.000628	0.000628
0.000835	0.000836	0.000838	0.000838	0.000839	0.00084	0.00084	0.000841	0.000841	0.000841	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842
0.010256	0.010219	0.01018	0.010144	0.01011	0.010084	0.010062	0.010046	0.010036	0.010028	0.01002	0.010015	0.010013	0.010014	0.010014	0.010014	0.010014	0.010014	0.010014
0.000839	0.00084	0.000841	0.000841	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000842	0.000843	0.000843	0.000843	0.000843	0.000843	0.000843
0.0222	0.022152	0.022125	0.022115	0.022113	0.022122	0.022133	0.022145	0.022157	0.022165	0.022172	0.022177	0.022184	0.022194	0.022194	0.022194	0.022194	0.022194	0.022194

APPENDIX D

CALEEMOD MODEL ANNUAL EMISSIONS PRINTOUTS AND EMFAC DATA

19208 Terracina at Redlands - San Bernardino-South Coast County, Annual

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

19208 Terracina at Redlands

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.61	Acre	14.61	636,411.60	0
Other Non-Asphalt Surfaces	28.20	Acre	28.20	1,228,392.00	0
Single Family Housing	67.00	Dwelling Unit	21.75	120,600.00	192

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	32
Climate Zone	10			**Operational Year**	2025

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 - 64.56 gross ac w/ 67 SFD, 28.2 ac open space, & remainder (~14.61 ac) paving of on-site roadways.

Construction Phase - Consistent w/ TIA, assumed one phase. Per phasing provided, grading ~2-3 months (entire site), building construction ~26 months, paving ~3 months. CalEEmod defautl used for coatings.

Off-road Equipment - CalEEMod default construction timing for building construction reduced by ~55%; therefore, ~55% more equipment added to CalEEMod defaults.

Off-road Equipment - CalEEMod default construction timing for grading reduced by ~42%; therefore, ~42% more equipment added to CalEEMod defaults.

Off-road Equipment -

Grading - Site anticipated to balance.

Vehicle Trips - TIA, 9.44 trips/DU/day.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

19208 Terracina at Redlands - San Bernardino-South Coast County, Annual

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

Sequestration - Landscape plans, ~505 new trees to be planted.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - 67 DU/64.56 ac = ~1 DU/ac. Site is ~2.57 miles SW downtown Redlands. Sidewalks on/off-site.

Water Mitigation - Per CalGreen Standards, 20% indoor water reduction. Water-efficient irrigation systems.

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

Fleet Mix -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1,110.00	502.00
tblConstructionPhase	NumDays	110.00	64.00
tblConstructionPhase	NumDays	75.00	66.00
tblFireplaces	NumberGas	56.95	60.30
tblFireplaces	NumberWood	3.35	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblSequestration	NumberOfNewTrees	0.00	505.00
tblVehicleTrips	ST_TR	9.54	9.44
tblVehicleTrips	SU_TR	8.55	9.44
tblWoodstoves	NumberCatalytic	3.35	0.00
tblWoodstoves	NumberNoncatalytic	3.35	0.00

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2.0 Emissions Summary

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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		
2023	0.6578	4.8228	6.1633	0.0180	1.4725	0.1741	1.6467	0.4831	0.1630	0.6462	0.0000	1,653.4664	1,653.4664	0.1782	0.0867	1,683.7446
2024	0.7157	4.7290	7.2335	0.0227	1.4177	0.1484	1.5661	0.3825	0.1402	0.5227	0.0000	2,100.3168	2,100.3168	0.1515	0.1269	2,141.9185
2025	0.8805	1.4685	2.4911	7.0200e-003	0.4288	0.0489	0.4777	0.1154	0.0460	0.1613	0.0000	649.2458	649.2458	0.0604	0.0324	660.3955
Maximum	**0.8805**	**4.8228**	**7.2335**	**0.0227**	**1.4725**	**0.1741**	**1.6467**	**0.4831**	**0.1630**	**0.6462**	**0.0000**	**2,100.3168**	**2,100.3168**	**0.1782**	**0.1269**	**2,141.9185**

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		
2023	0.6578	4.8228	6.1633	0.0180	1.1546	0.1741	1.3288	0.3450	0.1630	0.5080	0.0000	1,653.4658	1,653.4658	0.1782	0.0867	1,683.7439
2024	0.7157	4.7290	7.2335	0.0227	1.4177	0.1484	1.5661	0.3825	0.1402	0.5227	0.0000	2,100.3162	2,100.3162	0.1515	0.1269	2,141.9179
2025	0.8805	1.4685	2.4911	7.0200e-003	0.4288	0.0489	0.4777	0.1154	0.0460	0.1613	0.0000	649.2455	649.2455	0.0604	0.0324	660.3952
Maximum	**0.8805**	**4.8228**	**7.2335**	**0.0227**	**1.4177**	**0.1741**	**1.5661**	**0.3825**	**0.1630**	**0.5227**	**0.0000**	**2,100.3162**	**2,100.3162**	**0.1782**	**0.1269**	**2,141.9179**

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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	9.58	0.00	8.61	14.08	0.00	10.39	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	2-1-2023	4-30-2023	1.6719	1.6719
2	5-1-2023	7-31-2023	1.4242	1.4242
3	8-1-2023	10-31-2023	1.4272	1.4272
4	11-1-2023	1-31-2024	1.4166	1.4166
5	2-1-2024	4-30-2024	1.3350	1.3350
6	5-1-2024	7-31-2024	1.3519	1.3519
7	8-1-2024	10-31-2024	1.3583	1.3583
8	11-1-2024	1-31-2025	1.3461	1.3461
9	2-1-2025	4-30-2025	1.1525	1.1525
10	5-1-2025	7-31-2025	0.7584	0.7584
		Highest	1.6719	1.6719

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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	0.6422	0.0205	0.6962	1.2000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003	0.0000	15.6100	15.6100	1.3600e-003	2.7000e-004	15.7231
Energy	0.0102	0.0873	0.0372	5.6000e-004		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	195.7737	195.7737	9.9300e-003	2.8200e-003	196.8629
Mobile	0.3144	0.4980	3.2981	7.5300e-003	0.8149	6.0100e-003	0.8209	0.2177	5.6300e-003	0.2233	0.0000	713.2159	713.2159	0.0392	0.0350	724.6120
Waste						0.0000	0.0000		0.0000	0.0000	15.9795	0.0000	15.9795	0.9444	0.0000	39.5884
Water						0.0000	0.0000		0.0000	0.0000	1.3849	15.5029	16.8878	0.1436	3.5200e-003	21.5247
Total	**0.9668**	**0.6058**	**4.0314**	**8.2100e-003**	**0.8149**	**0.0179**	**0.8328**	**0.2177**	**0.0175**	**0.2352**	**17.3644**	**940.1025**	**957.4668**	**1.1384**	**0.0416**	**998.3112**

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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	0.6422	0.0205	0.6962	1.2000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003	0.0000	15.6100	15.6100	1.3600e-003	2.7000e-004	15.7231
Energy	0.0102	0.0873	0.0372	5.6000e-004		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	195.7737	195.7737	9.9300e-003	2.8200e-003	196.8629
Mobile	0.2949	0.4486	2.9658	6.6200e-003	0.7140	5.3200e-003	0.7193	0.1907	4.9800e-003	0.1957	0.0000	627.1987	627.1987	0.0359	0.0314	637.4600
Waste						0.0000	0.0000		0.0000	0.0000	3.9949	0.0000	3.9949	0.2361	0.0000	9.8971
Water						0.0000	0.0000		0.0000	0.0000	1.1079	13.4868	14.5947	0.1149	2.8200e-003	18.3099
Total	0.9474	0.5564	3.6991	7.3000e-003	0.7140	0.0172	0.7312	0.1907	0.0169	0.2076	5.1028	852.0691	857.1719	0.3982	0.0373	878.2530

	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	2.01	8.16	8.24	11.08	12.38	3.85	12.20	12.38	3.71	11.73	70.61	9.36	10.48	65.02	10.15	12.03

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

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	357.5400
Total	**357.5400**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	2/1/2023	5/1/2023	5	64	
2	Building Construction	Building Construction	5/2/2023	4/2/2025	5	502	
3	Paving	Paving	4/3/2025	7/3/2025	5	66	
4	Architectural Coating	Architectural Coating	4/3/2025	7/16/2025	5	75	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 256

Acres of Paving: 42.81

Residential Indoor: 244,215; Residential Outdoor: 81,405; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 111,888 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	3	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	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	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	2	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
Grading	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	807.00	313.00	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	161.00	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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3.2 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					0.5212	0.0000	0.5212	0.2265	0.0000	0.2265	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1465	1.5310	1.1555	2.6400e-003		0.0631	0.0631		0.0581	0.0581	0.0000	231.6424	231.6424	0.0749	0.0000	233.5154
Total	**0.1465**	**1.5310**	**1.1555**	**2.6400e-003**	**0.5212**	**0.0631**	**0.5843**	**0.2265**	**0.0581**	**0.2846**	**0.0000**	**231.6424**	**231.6424**	**0.0749**	**0.0000**	**233.5154**

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	3.1200e-003	2.3300e-003	0.0292	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6100e-003	5.0000e-005	2.6500e-003	0.0000	7.6730	7.6730	2.0000e-004	2.1000e-004	7.7401
Total	**3.1200e-003**	**2.3300e-003**	**0.0292**	**8.0000e-005**	**9.8200e-003**	**5.0000e-005**	**9.8700e-003**	**2.6100e-003**	**5.0000e-005**	**2.6500e-003**	**0.0000**	**7.6730**	**7.6730**	**2.0000e-004**	**2.1000e-004**	**7.7401**

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3.2 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					0.2033	0.0000	0.2033	0.0883	0.0000	0.0883	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1465	1.5310	1.1555	2.6400e-003		0.0631	0.0631		0.0581	0.0581	0.0000	231.6421	231.6421	0.0749	0.0000	233.5151
Total	**0.1465**	**1.5310**	**1.1555**	**2.6400e-003**	**0.2033**	**0.0631**	**0.2664**	**0.0883**	**0.0581**	**0.1464**	**0.0000**	**231.6421**	**231.6421**	**0.0749**	**0.0000**	**233.5151**

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	3.1200e-003	2.3300e-003	0.0292	8.0000e-005	9.8200e-003	5.0000e-005	9.8700e-003	2.6100e-003	5.0000e-005	2.6500e-003	0.0000	7.6730	7.6730	2.0000e-004	2.1000e-004	7.7401
Total	**3.1200e-003**	**2.3300e-003**	**0.0292**	**8.0000e-005**	**9.8200e-003**	**5.0000e-005**	**9.8700e-003**	**2.6100e-003**	**5.0000e-005**	**2.6500e-003**	**0.0000**	**7.6730**	**7.6730**	**2.0000e-004**	**2.1000e-004**	**7.7401**

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3.3 Building Construction - 2023

<u>**Unmitigated Construction On-Site**</u>

	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	0.2328	2.1022	2.2875	3.9500e-003		0.0999	0.0999		0.0945	0.0945	0.0000	338.3202	338.3202	0.0749	0.0000	340.1932
Total	**0.2328**	**2.1022**	**2.2875**	**3.9500e-003**		**0.0999**	**0.0999**		**0.0945**	**0.0945**	**0.0000**	**338.3202**	**338.3202**	**0.0749**	**0.0000**	**340.1932**

<u>**Unmitigated Construction Off-Site**</u>

	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	0.0307	1.0047	0.4067	4.8800e-003	0.1717	7.1900e-003	0.1789	0.0496	6.8800e-003	0.0565	0.0000	474.5901	474.5901	0.0124	0.0701	495.7994
Worker	0.2447	0.1826	2.2845	6.4800e-003	0.7698	3.8800e-003	0.7737	0.2045	3.5700e-003	0.2080	0.0000	601.2408	601.2408	0.0158	0.0163	606.4966
Total	**0.2754**	**1.1873**	**2.6912**	**0.0114**	**0.9416**	**0.0111**	**0.9526**	**0.2540**	**0.0105**	**0.2645**		**1,075.8309**	**1,075.8309**	**0.0281**	**0.0865**	**1,102.2960**

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3.3 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	0.2328	2.1022	2.2875	3.9500e-003		0.0999	0.0999		0.0945	0.0945	0.0000	338.3198	338.3198	0.0749	0.0000	340.1928
Total	**0.2328**	**2.1022**	**2.2875**	**3.9500e-003**		**0.0999**	**0.0999**		**0.0945**	**0.0945**	**0.0000**	**338.3198**	**338.3198**	**0.0749**	**0.0000**	**340.1928**

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	0.0307	1.0047	0.4067	4.8800e-003	0.1717	7.1900e-003	0.1789	0.0496	6.8800e-003	0.0565	0.0000	474.5901	474.5901	0.0124	0.0701	495.7994
Worker	0.2447	0.1826	2.2845	6.4800e-003	0.7698	3.8800e-003	0.7737	0.2045	3.5700e-003	0.2080	0.0000	601.2408	601.2408	0.0158	0.0163	606.4966
Total	**0.2754**	**1.1873**	**2.6912**	**0.0114**	**0.9416**	**0.0111**	**0.9526**	**0.2540**	**0.0105**	**0.2645**	**0.0000**	**1,075.8309**	**1,075.8309**	**0.0281**	**0.0865**	**1,102.2960**

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

3.3 Building Construction - 2024

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	0.3279	2.9588	3.4247	5.9500e-003		0.1321	0.1321		0.1248	0.1248	0.0000	509.5013	509.5013	0.1120	0.0000	512.3004
Total	**0.3279**	**2.9588**	**3.4247**	**5.9500e-003**		**0.1321**	**0.1321**		**0.1248**	**0.1248**	**0.0000**	**509.5013**	**509.5013**	**0.1120**	**0.0000**	**512.3004**

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	0.0452	1.5263	0.6023	7.2400e-003	0.2586	0.0107	0.2693	0.0746	0.0102	0.0848	0.0000	704.7740	704.7740	0.0180	0.1041	736.2565
Worker	0.3426	0.2439	3.2064	9.4700e-003	1.1592	5.6100e-003	1.1648	0.3079	5.1600e-003	0.3130	0.0000	886.0416	886.0416	0.0215	0.0228	893.3616
Total	**0.3878**	**1.7702**	**3.8088**	**0.0167**	**1.4177**	**0.0163**	**1.4340**	**0.3825**	**0.0154**	**0.3979**	**0.0000**	**1,590.8156**	**1,590.8156**	**0.0396**	**0.1269**	**1,629.6181**

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3.3 Building Construction - 2024

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	0.3279	2.9588	3.4247	5.9500e-003		0.1321	0.1321		0.1248	0.1248	0.0000	509.5007	509.5007	0.1120	0.0000	512.2998
Total	**0.3279**	**2.9588**	**3.4247**	**5.9500e-003**		**0.1321**	**0.1321**		**0.1248**	**0.1248**	**0.0000**	**509.5007**	**509.5007**	**0.1120**	**0.0000**	**512.2998**

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	0.0452	1.5263	0.6023	7.2400e-003	0.2586	0.0107	0.2693	0.0746	0.0102	0.0848	0.0000	704.7740	704.7740	0.0180	0.1041	736.2565
Worker	0.3426	0.2439	3.2064	9.4700e-003	1.1592	5.6100e-003	1.1648	0.3079	5.1600e-003	0.3130	0.0000	886.0416	886.0416	0.0215	0.0228	893.3616
Total	**0.3878**	**1.7702**	**3.8088**	**0.0167**	**1.4177**	**0.0163**	**1.4340**	**0.3825**	**0.0154**	**0.3979**	**0.0000**	**1,590.8156**	**1,590.8156**	**0.0396**	**0.1269**	**1,629.6181**

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3.3 Building Construction - 2025

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	0.0769	0.6919	0.8580	1.5000e-003		0.0288	0.0288		0.0272	0.0272	0.0000	128.3789	128.3789	0.0280	0.0000	129.0789
Total	**0.0769**	**0.6919**	**0.8580**	**1.5000e-003**		**0.0288**	**0.0288**		**0.0272**	**0.0272**	**0.0000**	**128.3789**	**128.3789**	**0.0280**	**0.0000**	**129.0789**

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	0.0112	0.3822	0.1494	1.7900e-003	0.0651	2.6800e-003	0.0678	0.0188	2.5700e-003	0.0214	0.0000	174.0886	174.0886	4.4100e-003	0.0257	181.8595
Worker	0.0804	0.0548	0.7507	2.3000e-003	0.2920	1.3400e-003	0.2933	0.0776	1.2400e-003	0.0788	0.0000	217.7312	217.7312	4.8900e-003	5.3300e-003	219.4430
Total	**0.0916**	**0.4370**	**0.9000**	**4.0900e-003**	**0.3571**	**4.0200e-003**	**0.3612**	**0.0964**	**3.8100e-003**	**0.1002**	**0.0000**	**391.8198**	**391.8198**	**9.3000e-003**	**0.0310**	**401.3025**

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3.3 Building Construction - 2025

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	0.0769	0.6919	0.8580	1.5000e-003		0.0288	0.0288		0.0272	0.0272	0.0000	128.3788	128.3788	0.0280	0.0000	129.0787
Total	**0.0769**	**0.6919**	**0.8580**	**1.5000e-003**		**0.0288**	**0.0288**		**0.0272**	**0.0272**	**0.0000**	**128.3788**	**128.3788**	**0.0280**	**0.0000**	**129.0787**

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	0.0112	0.3822	0.1494	1.7900e-003	0.0651	2.6800e-003	0.0678	0.0188	2.5700e-003	0.0214	0.0000	174.0886	174.0886	4.4100e-003	0.0257	181.8595
Worker	0.0804	0.0548	0.7507	2.3000e-003	0.2920	1.3400e-003	0.2933	0.0776	1.2400e-003	0.0788	0.0000	217.7312	217.7312	4.8900e-003	5.3300e-003	219.4430
Total	**0.0916**	**0.4370**	**0.9000**	**4.0900e-003**	**0.3571**	**4.0200e-003**	**0.3612**	**0.0964**	**3.8100e-003**	**0.1002**	**0.0000**	**391.8198**	**391.8198**	**9.3000e-003**	**0.0310**	**401.3025**

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3.4 Paving - 2025

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	0.0302	0.2832	0.4811	7.5000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	66.0635	66.0635	0.0214	0.0000	66.5977
Paving	0.0191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0493**	**0.2832**	**0.4811**	**7.5000e-004**		**0.0138**	**0.0138**		**0.0127**	**0.0127**	**0.0000**	**66.0635**	**66.0635**	**0.0214**	**0.0000**	**66.5977**

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	1.4900e-003	1.0200e-003	0.0140	4.0000e-005	5.4300e-003	2.0000e-005	5.4500e-003	1.4400e-003	2.0000e-005	1.4600e-003	0.0000	4.0471	4.0471	9.0000e-005	1.0000e-004	4.0789
Total	**1.4900e-003**	**1.0200e-003**	**0.0140**	**4.0000e-005**	**5.4300e-003**	**2.0000e-005**	**5.4500e-003**	**1.4400e-003**	**2.0000e-005**	**1.4600e-003**	**0.0000**	**4.0471**	**4.0471**	**9.0000e-005**	**1.0000e-004**	**4.0789**

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3.4 Paving - 2025

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	0.0302	0.2832	0.4811	7.5000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	66.0635	66.0635	0.0214	0.0000	66.5976
Paving	0.0191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0493	0.2832	0.4811	7.5000e-004		0.0138	0.0138		0.0127	0.0127	0.0000	66.0635	66.0635	0.0214	0.0000	66.5976

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	1.4900e-003	1.0200e-003	0.0140	4.0000e-005	5.4300e-003	2.0000e-005	5.4500e-003	1.4400e-003	2.0000e-005	1.4600e-003	0.0000	4.0471	4.0471	9.0000e-005	1.0000e-004	4.0789
Total	1.4900e-003	1.0200e-003	0.0140	4.0000e-005	5.4300e-003	2.0000e-005	5.4500e-003	1.4400e-003	2.0000e-005	1.4600e-003	0.0000	4.0471	4.0471	9.0000e-005	1.0000e-004	4.0789

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

3.5 Architectural Coating - 2025

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	0.6366					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**0.6430**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

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	0.0182	0.0124	0.1702	5.2000e-004	0.0662	3.0000e-004	0.0665	0.0176	2.8000e-004	0.0179	0.0000	49.3617	49.3617	1.1100e-003	1.2100e-003	49.7498
Total	**0.0182**	**0.0124**	**0.1702**	**5.2000e-004**	**0.0662**	**3.0000e-004**	**0.0665**	**0.0176**	**2.8000e-004**	**0.0179**	**0.0000**	**49.3617**	**49.3617**	**1.1100e-003**	**1.2100e-003**	**49.7498**

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3.5 Architectural Coating - 2025

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	0.6366					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	**0.6430**	**0.0430**	**0.0678**	**1.1000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**	**0.0000**	**9.5747**	**9.5747**	**5.2000e-004**	**0.0000**	**9.5878**

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	0.0182	0.0124	0.1702	5.2000e-004	0.0662	3.0000e-004	0.0665	0.0176	2.8000e-004	0.0179	0.0000	49.3617	49.3617	1.1100e-003	1.2100e-003	49.7498
Total	**0.0182**	**0.0124**	**0.1702**	**5.2000e-004**	**0.0662**	**3.0000e-004**	**0.0665**	**0.0176**	**2.8000e-004**	**0.0179**	**0.0000**	**49.3617**	**49.3617**	**1.1100e-003**	**1.2100e-003**	**49.7498**

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Improve Pedestrian Network

	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	0.2949	0.4486	2.9658	6.6200e-003	0.7140	5.3200e-003	0.7193	0.1907	4.9800e-003	0.1957	0.0000	627.1987	627.1987	0.0359	0.0314	637.4600
Unmitigated	0.3144	0.4980	3.2981	7.5300e-003	0.8149	6.0100e-003	0.8209	0.2177	5.6300e-003	0.2233	0.0000	713.2159	713.2159	0.0392	0.0350	724.6120

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	632.48	632.48	632.48	2,161,280	1,893,686
Total	632.48	632.48	632.48	2,161,280	1,893,686

4.3 Trip Type Information

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	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Other Non-Asphalt Surfaces	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606
Single Family Housing	0.543085	0.056300	0.173085	0.134258	0.025645	0.007009	0.011926	0.017481	0.000552	0.000248	0.024848	0.000956	0.004606

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	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	94.6373	94.6373	7.9900e-003	9.7000e-004	95.1255
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.6373	94.6373	7.9900e-003	9.7000e-004	95.1255
NaturalGas Mitigated	0.0102	0.0873	0.0372	5.6000e-004		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	101.1364	101.1364	1.9400e-003	1.8500e-003	101.7374
NaturalGas Unmitigated	0.0102	0.0873	0.0372	5.6000e-004		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	101.1364	101.1364	1.9400e-003	1.8500e-003	101.7374

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					
Other 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
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
Single Family Housing	1.89522e +006	0.0102	0.0873	0.0372	5.6000e-004		7.0600e-003	7.0600e-003		7.0600e-003	7.0600e-003	0.0000	101.1364	101.1364	1.9400e-003	1.8500e-003	101.7374
Total		**0.0102**	**0.0873**	**0.0372**	**5.6000e-004**		**7.0600e-003**	**7.0600e-003**		**7.0600e-003**	**7.0600e-003**	**0.0000**	**101.1364**	**101.1364**	**1.9400e-003**	**1.8500e-003**	**101.7374**

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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		
Other 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
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
Single Family Housing	1.89522e +006	0.0102	0.0873	0.0372	5.6000e- 004		7.0600e- 003	7.0600e- 003		7.0600e- 003	7.0600e- 003	0.0000	101.1364	101.1364	1.9400e- 003	1.8500e- 003	101.7374
Total		**0.0102**	**0.0873**	**0.0372**	**5.6000e- 004**		**7.0600e- 003**	**7.0600e- 003**		**7.0600e- 003**	**7.0600e- 003**	**0.0000**	**101.1364**	**101.1364**	**1.9400e- 003**	**1.8500e- 003**	**101.7374**

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5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	533632	94.6373	7.9900e-003	9.7000e-004	95.1255
Total		**94.6373**	**7.9900e-003**	**9.7000e-004**	**95.1255**

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

5.3 Energy by Land Use - Electricity

Mitigated

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	533632	94.6373	7.9900e-003	9.7000e-004	95.1255
Total		**94.6373**	**7.9900e-003**	**9.7000e-004**	**95.1255**

6.0 Area Detail

6.1 Mitigation Measures Area

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	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	0.6422	0.0205	0.6962	1.2000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003	0.0000	15.6100	15.6100	1.3600e-003	2.7000e-004	15.7231
Unmitigated	0.6422	0.0205	0.6962	1.2000e-004		4.8400e-003	4.8400e-003		4.8400e-003	4.8400e-003	0.0000	15.6100	15.6100	1.3600e-003	2.7000e-004	15.7231

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	0.0637					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5563					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4600e-003	0.0125	5.3200e-003	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.4803	14.4803	2.8000e-004	2.7000e-004	14.5663
Landscaping	0.0208	7.9600e-003	0.6908	4.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.1297	1.1297	1.0800e-003	0.0000	1.1568
Total	**0.6422**	**0.0205**	**0.6962**	**1.2000e-004**		**4.8400e-003**	**4.8400e-003**		**4.8400e-003**	**4.8400e-003**	**0.0000**	**15.6100**	**15.6100**	**1.3600e-003**	**2.7000e-004**	**15.7231**

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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	0.0637					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5563					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.4600e-003	0.0125	5.3200e-003	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.4803	14.4803	2.8000e-004	2.7000e-004	14.5663
Landscaping	0.0208	7.9600e-003	0.6908	4.0000e-005		3.8300e-003	3.8300e-003		3.8300e-003	3.8300e-003	0.0000	1.1297	1.1297	1.0800e-003	0.0000	1.1568
Total	**0.6422**	**0.0205**	**0.6962**	**1.2000e-004**		**4.8400e-003**	**4.8400e-003**		**4.8400e-003**	**4.8400e-003**	**0.0000**	**15.6100**	**15.6100**	**1.3600e-003**	**2.7000e-004**	**15.7231**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.5947	0.1149	2.8200e-003	18.3099
Unmitigated	16.8878	0.1436	3.5200e-003	21.5247

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.36532 / 2.75205	16.8878	0.1436	3.5200e-003	21.5247
Total		**16.8878**	**0.1436**	**3.5200e-003**	**21.5247**

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7.2 Water by Land Use

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.49226 / 2.75205	14.5947	0.1149	2.8200e-003	18.3099
Total		**14.5947**	**0.1149**	**2.8200e-003**	**18.3099**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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	3.9949	0.2361	0.0000	9.8971
Unmitigated	15.9795	0.9444	0.0000	39.5884

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	78.72	15.9795	0.9444	0.0000	39.5884
Total		**15.9795**	**0.9444**	**0.0000**	**39.5884**

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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

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	19.68	3.9949	0.2361	0.0000	9.8971
Total		**3.9949**	**0.2361**	**0.0000**	**9.8971**

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

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

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	357.5400	0.0000	0.0000	357.5400

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	505	357.5400	0.0000	0.0000	357.5400
Total		**357.5400**	**0.0000**	**0.0000**	**357.5400**

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: Air District
Region: South Coast AQMD
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coas	2023	HHDT	Aggregate	Aggregate	Gasoline	75.10442936	8265.097	1502.689	1.936286145	1936.286145		1913466.474	8265.097	13656273.03	7.14	HHD
South Coas	2023	HHDT	Aggregate	Aggregate	Diesel	109818.6753	13648008	1133618	1911.530188	1911530.188			13648008			
South Coas	2023	LDA	Aggregate	Aggregate	Gasoline	6635002.295	2.53E+08	31352477	7971.24403	7971244.03		8020635.698	2.53E+08	255180358.3	31.82	LDA
South Coas	2023	LDA	Aggregate	Aggregate	Diesel	62492.97958	2469816	297086.6	49.3916685	49391.6685			2469816			
South Coas	2023	LDA	Aggregate	Aggregate	Electricity	150700.3971	6237106	751566	0	0			6237106			
South Coas	2023	LDT1	Aggregate	Aggregate	Gasoline	758467.6481	27812996	3504563	1023.913006	1023913.006		1024279.466	27812996	27821405.09	27.16	LDT1
South Coas	2023	LDT1	Aggregate	Aggregate	Diesel	360.7799144	8408.618	1256.88	0.366459477	366.4594769			8408.618			
South Coas	2023	LDT1	Aggregate	Aggregate	Electricity	7122.93373	303507.5	35798.19	0	0			303507.5			
South Coas	2023	LDT2	Aggregate	Aggregate	Gasoline	2285150.139	85272416	10723315	3338.798312	3338798.312		3356536.438	85272416	85922778.34	25.60	LDT2
South Coas	2023	LDT2	Aggregate	Aggregate	Diesel	15594.68309	650362.8	76635.83	17.73812611	17738.12611			650362.8			
South Coas	2023	LDT2	Aggregate	Aggregate	Electricity	28809.63735	917592.8	145405.4	0	0			917592.8			
South Coas	2023	LHDT1	Aggregate	Aggregate	Gasoline	174910.3847	6216643	2605904	583.3851736	583385.1736		811563.1022	6216643	11211395.79	13.81	LHDT1
South Coas	2023	LHDT1	Aggregate	Aggregate	Diesel	125545.0822	4994753	1579199	228.1779285	228177.9285			4994753			
South Coas	2023	LHDT2	Aggregate	Aggregate	Gasoline	30102.75324	1034569	448486.2	111.5753864	111575.3864		209423.5025	1034569	2969599.008	14.18	LHDT2
South Coas	2023	LHDT2	Aggregate	Aggregate	Diesel	50003.13116	1935030	628976.5	97.84811618	97848.11618			1935030			
South Coas	2023	MCY	Aggregate	Aggregate	Gasoline	305044.5141	2104624	610089	57.849018	57849.018		57849.018	2104624	2104623.657	36.38	MCY
South Coas	2023	MDV	Aggregate	Aggregate	Gasoline	1589862.703	55684188	7354860	2693.883526	2693883.526		2744536.341	55684188	57109879.73	20.81	MDV
South Coas	2023	MDV	Aggregate	Aggregate	Diesel	36128.1019	1425691	176566.9	50.65281491	50652.81491			1425691			
South Coas	2023	MDV	Aggregate	Aggregate	Electricity	16376.67653	537591.7	83475.95	0	0			537591.7			
South Coas	2023	MH	Aggregate	Aggregate	Gasoline	34679.50542	330042.9	3469.338	63.26295123	63262.95123		74893.26955	330042.9	454344.9436	6.07	MH
South Coas	2023	MH	Aggregate	Aggregate	Diesel	13122.69387	124302	1312.269	11.63031832	11630.31832			124302			
South Coas	2023	MHDT	Aggregate	Aggregate	Gasoline	25624.3151	1363694	512691.3	265.2060557	265206.0557		989975.6425	1363694	9484317.768	9.58	MHDT
South Coas	2023	MHDT	Aggregate	Aggregate	Diesel	122124.488	8120623	1221858	724.7695868	724769.5868			8120623			
South Coas	2023	OBUS	Aggregate	Aggregate	Gasoline	5955.291639	245774	119153.5	48.07750689	48077.50689		86265.88761	245774	579743.8353	6.72	OBUS
South Coas	2023	OBUS	Aggregate	Aggregate	Diesel	4286.940093	333969.8	41558.29	38.18838072	38188.38072			333969.8			
South Coas	2023	SBUS	Aggregate	Aggregate	Gasoline	2783.643068	112189.6	11134.57	12.19474692	12194.74692		39638.85935	112189.6	323043.5203	8.15	SBUS
South Coas	2023	SBUS	Aggregate	Aggregate	Diesel	6671.825716	210853.9	76991.94	27.44411242	27444.11242			210853.9			
South Coas	2023	UBUS	Aggregate	Aggregate	Gasoline	957.7686184	89782.63	3831.074	17.62416327	17624.16327		17863.66378	89782.63	91199.2533	5.11	UBUS
South Coas	2023	UBUS	Aggregate	Aggregate	Diesel	13.00046095	1416.622	52.00184	0.239500509	239.5005093			1416.622			
South Coas	2023	UBUS	Aggregate	Aggregate	Electricity	16.11693886	1320.163	64.46776	0				1320.163			

Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	Trips	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	VMT	Total VMT	Miles Per Gall	Vehicle Class
South Coast AQMD	2025	HHDT	Aggregate	Aggregate	Gasoline	73.98518075	1480.295497	2.008930562	2008.930562	1923335.59	9005.52904	14181370.9	7.37	HHD
South Coast AQMD	2025	HHDT	Aggregate	Aggregate	Diesel	114510.0758	1194128.743	1921.32666	1921326.66		14172365.37			
South Coast AQMD	2025	LDA	Aggregate	Aggregate	Gasoline	6805726.977	32143253.37	7565.468773	7565468.773	7615965.348	253145342.8	255801771.2	33.59	LDA
South Coast AQMD	2025	LDA	Aggregate	Aggregate	Diesel	68721.91478	327385.003	50.49657501	50496.57501		2656428.369			
South Coast AQMD	2025	LDA	Aggregate	Aggregate	Electricity	205237.1988	1020366.918	0	0		8815934.14			
South Coast AQMD	2025	LDT1	Aggregate	Aggregate	Gasoline	800497.2846	3705072.539	1005.884969	1005884.969	1006195.981	28711777.34	28719147.97	28.54	LDT1
South Coast AQMD	2025	LDT1	Aggregate	Aggregate	Diesel	314.0763599	1101.554527	0.311011752	311.0117521		7370.62386			
South Coast AQMD	2025	LDT1	Aggregate	Aggregate	Electricity	11260.1889	56475.75047	0	0		498412.9596			
South Coast AQMD	2025	LDT2	Aggregate	Aggregate	Gasoline	2364308.553	11096373.45	3161.427108	3161427.108	3180111.929	86303467.33	87025617.91	27.37	LDT2
South Coast AQMD	2025	LDT2	Aggregate	Aggregate	Diesel	18091.40442	88340.72944	18.68482079	18684.82079		722150.5811			
South Coast AQMD	2025	LDT2	Aggregate	Aggregate	Electricity	43109.07992	216309.8691	0	0		1316602.996			
South Coast AQMD	2025	LHDT1	Aggregate	Aggregate	Gasoline	173430.3556	2583853.887	557.3606918	557360.6918	792510.5992	6082106.238	11386674.74	14.37	LHDT1
South Coast AQMD	2025	LHDT1	Aggregate	Aggregate	Diesel	137399.5807	1728313.877	235.1499073	235149.9073		5304568.502			
South Coast AQMD	2025	LHDT2	Aggregate	Aggregate	Gasoline	30280.25924	451130.7451	107.8982218	107898.2218	209168.1313	1023279.202	3085084.93	14.75	LHDT2
South Coast AQMD	2025	LHDT2	Aggregate	Aggregate	Diesel	55100.27217	693092.1078	101.2699095	101269.9095		2061805.728			
South Coast AQMD	2025	MCY	Aggregate	Aggregate	Gasoline	322405.1182	644810.2364	59.60030235	59600.30235	59600.30235	2156492.828	2156492.828	36.18	MCY
South Coast AQMD	2025	MDV	Aggregate	Aggregate	Gasoline	1610759.164	7459996.66	2511.049161	2511049.161	2563774.488	55349775.96	56914413.69	22.20	MDV
South Coast AQMD	2025	MDV	Aggregate	Aggregate	Diesel	41295.14503	200455.1443	52.72532627	52725.32627		1564637.726			
South Coast AQMD	2025	MDV	Aggregate	Aggregate	Electricity	27149.6429	137370.5198	0	0		850200.5411			
South Coast AQMD	2025	MH	Aggregate	Aggregate	Gasoline	33995.4554	3400.905358	60.25102942	60251.02942	71903.34255	324472.9039	452164.5308	6.29	MH
South Coast AQMD	2025	MH	Aggregate	Aggregate	Diesel	13797.47947	1379.747947	11.65231313	11652.31313		127691.6269			
South Coast AQMD	2025	MHDT	Aggregate	Aggregate	Gasoline	25990.85247	520024.9763	255.9964527	255996.4527	988002.6613	1355596.744	9800462.56	9.92	MHDT
South Coast AQMD	2025	MHDT	Aggregate	Aggregate	Diesel	132892.7756	1340366.128	732.0062086	732006.2086		8444865.816			
South Coast AQMD	2025	OBUS	Aggregate	Aggregate	Gasoline	5953.626381	119120.1566	45.04342637	45043.42637	83823.43363	237698.4826	587532.3366	7.01	OBUS
South Coast AQMD	2025	OBUS	Aggregate	Aggregate	Diesel	4685.134389	45454.12243	38.78000726	38780.00726		349833.854			
South Coast AQMD	2025	SBUS	Aggregate	Aggregate	Gasoline	3092.714696	12370.85878	12.97345284	12973.45284	40041.19183	121823.4096	335142.2087	8.37	SBUS
South Coast AQMD	2025	SBUS	Aggregate	Aggregate	Diesel	6746.345934	77851.89673	27.06773898	27067.73898		213318.799			
South Coast AQMD	2025	UBUS	Aggregate	Aggregate	Gasoline	969.3659992	3877.463997	16.68217368	16682.17368	16817.54794	90835.89881	91611.49371	5.45	UBUS
South Coast AQMD	2025	UBUS	Aggregate	Aggregate	Diesel	6.367322198	25.46928879	0.135374266	135.3742664		775.5948993			
South Coast AQMD	2025	UBUS	Aggregate	Aggregate	Electricity	16.11693886	64.46775545	0			1320.163255			

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