



Appendix A

Air Quality, Global Climate Change, HRA, and Energy Impact Analysis

**HARVILL TRAILER
STORAGE YARD PROJECT
AIR QUALITY, GLOBAL CLIMATE CHANGE,
HRA, AND ENERGY IMPACT ANALYSIS**

County of Riverside
May 6, 2021
(Revised January 19, 2022)



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

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County of Riverside
May 6, 2021
(Revised January 19, 2022)

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Project No. 19365

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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 Harvill Trailer Storage Yard 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 and the nearest sensitive receptors to the project site are located 235 feet (~72 meters) southwest of the project site. Therefore, impacts from TACs during construction would be less than significant.

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

Operational-Source Emissions

Project operational-sourced emissions would not exceed applicable regional thresholds of significance established by the SCAQMD. Project operational-source emissions would not result in or cause a significant localized air quality or toxic air contaminant (TAC) impacts as discussed in the Operations-Related Local Air Quality Impacts section of this report. Additionally, project-related trips will not cause or result in CO concentrations exceeding applicable state and/or federal standards (CO "hotspots"). The Diesel Emissions Health Risk Assessment conducted for this project showed that DPM emissions from project-related truck trips will not cause a significantly elevated cancer risk or significant non-cancer-related health risk to nearby receptors. Project operational-source emissions would therefore not adversely affect sensitive receptors within the vicinity of the project.

Project operational-source emissions would not conflict with the Basin 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 greenhouse gas (GHG) emissions would not exceed the County of Riverside Climate Action Plan (CAP) Update screening threshold of 3,000 metric tons of carbon dioxide equivalents (MTCO_{2e}) per year.

Furthermore, as the proposed project would not exceed the screening threshold of 3,000 metric tons of carbon dioxide equivalents (MTCO_{2e}) per year, the project would not conflict with the goals of AB-32, SB-32, or the County of Riverside CAP Update; 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 Harvill Trailer Storage Yard project, compliance with California Building Standards Code Title 24 energy efficiency requirements (CalGreen), are considered demonstrable evidence of efficient use of energy. As discussed below, the project would provide for, and promote, energy efficiencies required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the project's operation is calculated to be comparable to, or less than, energy consumed by other industrial uses of similar scale and intensity that are constructed and operating in California. On this basis, the project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Impacts are considered to be less than significant.

1. INTRODUCTION

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

PURPOSE AND OBJECTIVES

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

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

The County of Riverside is the lead agency for this air quality and GHG analysis, in accordance with the CEQA authorizing legislation. Although this is a technical report, effort has been made to write the report clearly and concisely. A glossary is provided in Appendix A to assist the reader with technical terms related to air quality and global climate change.

PROJECT LOCATION

The 7.24-acre project site is located at the northwest corner of Harvill Avenue and Orange Avenue in the County of Riverside, California. A vicinity map showing the project location is provided on Figure 1.

PROJECT DESCRIPTION

The proposed project involves construction of a 16,200 square foot maintenance building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls. Vehicular access is proposed at Orange Avenue. Figure 2 illustrates the proposed site plan.

According to the SCAQMD's MATES-V study, the project area has an estimated multi-pathway cancer risk of 336 in one million and an inhalation cancer risk of 312 in one million. In comparison, the average multi-pathway cancer risk for the South Coast Air Basin portion of Riverside County is 332 in one million and the inhalation cancer risk is 313 in a million. This increased cancer risk is largely due to the proximity to the Interstate 215 Freeway.

PHASING AND TIMING

The proposed project is anticipated to be operational in 2022. The project is anticipated to be built in one phase with project construction anticipated to start no sooner than the beginning of June 2022 and be completed by mid-November 2022.

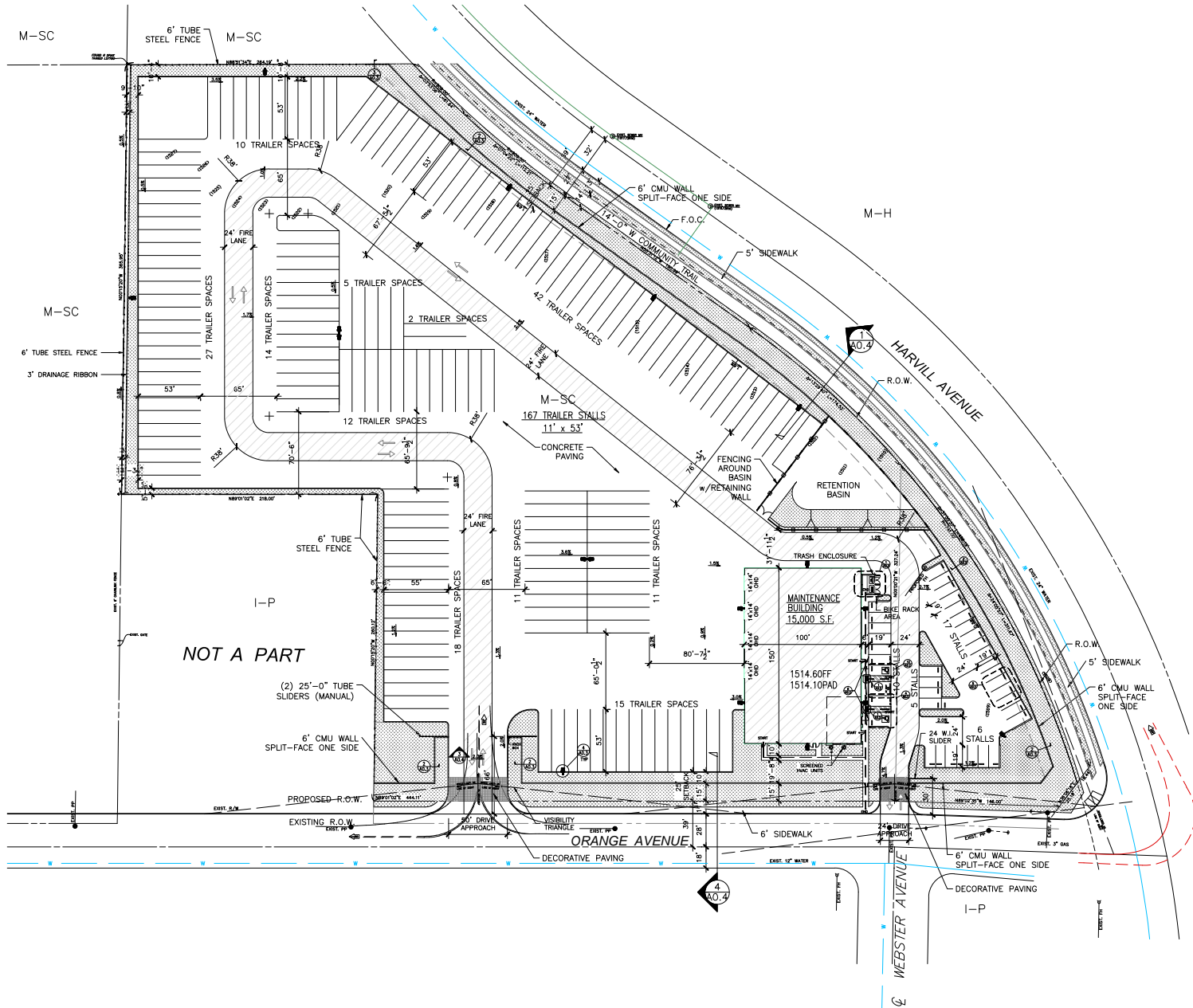
SENSITIVE RECEPTORS IN PROJECT VICINITY

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 existing single-family detached residential dwelling units located approximately 235 feet (~72 meters) southwest, 275 feet (~84 meters) south, and 660 feet (~201 meters) west of the project site. Other air quality sensitive land uses are located further from the project site and would experience lower impacts.



Figure 1
Project Location Map



**Figure 2
Site Plan**

2. AIR QUALITY ANALYSIS

EXISTING AIR QUALITY CONDITIONS

Local Air Quality

The project is located within the portion of Riverside County that lies within the South Coast Air Basin (Basin). The project area is under the jurisdiction of the SCAQMD. The Basin is a 6,600-square-mile coastal plain bounded by the Pacific Ocean to the southwest and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Basin includes the non-desert portions of Los Angeles, Riverside, and San Bernardino counties, and all of Orange County.

The ambient concentrations of air pollutants are determined by the amount of emissions released by sources and the atmosphere's ability to transport and dilute such emissions. Natural factors that affect transport and dilution include terrain, wind, atmospheric stability, and sunlight. Therefore, existing air quality conditions in the area are determined by such natural factors as topography, meteorology, and climate, in addition to the amount of emissions released by existing air pollutant sources.

Atmospheric conditions such as wind speed, wind direction, and air temperature gradients interact with the physical features of the landscape to determine the movement and dispersal of air pollutants. The topography and climate of southern California combine to make the Basin an area of high air pollution potential. The Basin is a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean to the west and high mountains around the rest of the perimeter. The general region lies in the semi-permanent high-pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light average wind speeds.

The usually mild climatological pattern is disrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds. During the summer months, a warm air mass frequently descends over the cool, moist marine layer produced by the interaction between the ocean's surface and the lowest layer of the atmosphere. The warm upper layer forms a cap over the cool marine layer and inhibits the pollutants in the marine layer from dispersing upward. In addition, light winds during the summer further limit ventilation. Furthermore, sunlight triggers the photochemical reactions that produce ozone. The region experiences more days of sunlight than any other major urban area in the nation except Phoenix (SCAQMD, 2007).

The temperature and precipitation levels for the City of Sun City, the closest station with updated 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	66.7	68.1	71.1	77.2	83.2	91.8	97.6	98.6	93.5	84.2	71.2	66.9
Avg. Min. Temperature	36.3	38.9	41.6	45.1	50.1	54.5	58.6	60.1	57.4	49.3	39.4	35.4
Avg. Total Precipitation (in.)	2.29	3.08	1.95	0.79	0.31	0.07	0.04	0.22	0.1	0.45	0.71	1.33

Source: <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca8655>

Data from the Sun City, CA station (048655).

Pollutants

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

Criteria Pollutants

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

Nitrogen Dioxides

Nitrogen Oxides (NO_x) is the generic term for a group of highly reactive gases which contain nitrogen and oxygen. While most NO_x are colorless and odorless, concentrations of nitrogen dioxide (NO₂) can often be seen as a reddish-brown layer over many urban areas. NO_x form when fuel is burned at high temperatures, as in a combustion process. The primary manmade sources of NO_x are motor vehicles, electric utilities, and other industrial, commercial, and residential sources that burn fuel. NO_x reacts with other pollutants to form, ground-level ozone, nitrate particles, acid aerosols, as well as NO₂, which cause respiratory problems. NO_x and the pollutants formed from NO_x can be transported over long distances, following the patterns of prevailing winds. Therefore controlling NO_x is often most effective if done from a regional perspective, rather than focusing on the nearest sources.

Ozone

Ozone (O₃) is not usually emitted directly into the air but at ground-level is created by a chemical reaction between NO_x 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 NO_x and VOC that help form O₃. Ground-level O₃ is the primary constituent of smog. Sunlight and hot weather cause ground-level O₃ to form with the greatest concentrations usually occurring downwind from urban areas. O₃ is subsequently considered a regional pollutant. Ground-level O₃ is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials. Because NO_x and VOC are O₃ precursors, the health effects associated with O₃ are also indirect health effects associated with significant levels of NO_x 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 (PM_{2.5}) 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 O₃. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM₁₀ and lower visibility.

Other Pollutants of Concern

Toxic Air Contaminants (TACs)

In addition to the above-listed criteria pollutants, TACs are another group of pollutants of concern. Sources of TACs 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 TACs. The most important of these TACs, in terms of health risk, are diesel particulates, benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Public exposure to TACs can result from emissions from normal operations as well as from accidental releases. Health effects of TACs include cancer, birth defects, neurological damage, and death.

TACs 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 TACs with varying degrees of toxicity. Sources of TACs 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 TACs can be attributed to relatively few compounds, the most important of which is diesel particulate matter (DPM). Diesel particulate matter is a subset of PM_{2.5} because the size of diesel particles are typically 2.5 microns and smaller. The identification of diesel particulate matter as a TAC 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 TAC 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 Riverside County. The nearest likely locations of naturally occurring asbestos, as identified in the [General Location Guide for Ultramafic Rocks in California](#) prepared by the California Division of Mines and Geology, is located in Santa Barbara County. 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 (USEPA) is responsible for setting and enforcing the 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 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 PM_{2.5} standard is met if the three-year average of the annual average PM_{2.5} 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 O₃ and PM_{2.5}. Currently, the Basin is in maintenance/attainment with the ambient air quality standards for CO, lead, SO₂, suspended PM-10, and NO₂.

State – California Air Resources Board

The California Air Resources Board (CARB), which is 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, the CARB conducts research, sets the CAAQS, compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). The 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 barbecue 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 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 PM_{2.5}. 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 PM_{2.5} 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 PM_{2.5} Standards. The plan projected attainment for the 8-hour Ozone standard by 2024 and the PM_{2.5} 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 TACs. 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 TACs for use by certain categories of stationary sources. The bill requires those stationary sources to report their annual emissions of criteria air pollutants and TACs, 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 TACs 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 AQMP 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 the project may be required to comply with, either directly, or indirectly:

SCAQMD Rule 402

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

SCAQMD Rule 403

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

Rule 403 requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off-site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM₁₀ 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 PM₁₀ 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 CEQA. In order to assist local jurisdictions with air quality compliance issues the [CEQA Air Quality Handbook \(SCAQMD CEQA Handbook\)](http://www.aqmd.gov/ceqa/hdbk.html) 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 website¹. 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 - County of Riverside

Local jurisdictions, such as the County of Riverside, have the authority and responsibility to reduce air pollution through its police power and decision-making authority. Specifically, the County is responsible for the assessment and mitigation of air emissions resulting from its land use decisions. The County 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 County assesses the air quality impacts of new development projects, requires mitigation of potentially significant air quality impacts by conditioning discretionary permits, and monitors and enforces implementation of such mitigation.

The County 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.

¹ <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook>.

The Air Quality Element of the County of Riverside General Plan summarizes air quality issues in the Basin, air quality-related plans and programs administered by federal, state, and special purpose agencies, and establishes goals and policies to improve air quality. These goals and policies in the Air Quality Element that relate to the proposed project include:

Multi-jurisdictional Cooperation:

- AQ 1.1 Promote and participate with regional and local agencies, both public and private, to protect and improve air quality. (AI 111)
- AQ 1.2 Support the Southern California Association of Government's (SCAG) Regional Growth Management Plan by developing intergovernmental agreements with appropriate governmental entities such as the Western Riverside Council of Governments (WRCOG), the Coachella Valley Association of Governments (CVAG), sanitation districts, water districts, and those subregional entities identified in the Regional Growth Management Plan. (AI 111)
- AQ 1.3 Participate in the development and update of those regional air quality management plans required under federal and state law, and meet all standards established for clean air in these plans. (AI 110)
- AQ 1.4 Coordinate with the SCAQMD and MDAQMD to ensure that all elements of air quality plans regarding reduction of air pollutant emissions are being enforced. (AI 111)
- AQ 1.5 Establish and implement air quality, land use and circulation measures that improve not only the County's environment but the entire regions. (AI 111)
- AQ 1.6 Establish a level playing field by working with local jurisdictions to simultaneously adopt policies similar to those in this Air Quality Element.
- AQ 1.7 Support legislation which promotes cleaner industry, clean fuel vehicles and more efficient burning engines and fuels. (AI 113)
- AQ 1.8 Support the introduction of federal, state or regional enabling legislation to permit the County to promote inventive air quality programs, which otherwise could not be implemented. (AI 113)
- AQ 1.9 Encourage, publicly recognize and reward innovative approaches that improve air quality. (AI 113)
- AQ 1.10 Work with regional and local agencies to evaluate the feasibility of implementing a system of charges (e.g., pollution charges, user fees, congestion pricing and toll roads) that requires individuals who undertake polluting activities to bear the economic cost of their actions where possible. (AI 111)
- AQ 1.11 Involve environmental groups, the business community, special interests, and the general public in the formulation and implementation of programs that effectively reduce airborne pollutants.

Sensitive Receptors:

- AQ 2.1 The County land use planning efforts shall assure that sensitive receptors are separated and protected from polluting point sources to the greatest extent possible.
- AQ 2.2 Require site plan designs to protect people and land uses sensitive to air pollution through the use of barriers and/or distance from emissions sources when possible.

AQ 2.3 Encourage the use of pollution control measures such as landscaping, vegetation and other materials, which trap particulate matter or control pollution.

Stationary Pollution Sources:

AQ 4.1 Encourage the use of building materials/methods which reduce emissions.

AQ 4.2 Require the use of all feasible efficient heating equipment and other appliances, such as water heaters, swimming pool heaters, cooking equipment, refrigerators, furnaces and boiler units.

AQ 4.3 Require centrally heated facilities to utilize automated time clocks or occupant sensors to control heating where feasible.

AQ 4.5 Require stationary pollution sources to minimize the release of toxic pollutants through:

- Design features;
- Operating procedures;
- Preventive maintenance;
- Operator training; and
- Emergency response planning

AQ 4.6 Require stationary air pollution sources to comply with applicable air district rules and control measures.

AQ 4.7 To the greatest extent possible, require every project to mitigate any of its anticipated emissions which exceed allowable emissions as established by the SCAQMD, MDAQMD, SOCAB, the Environmental Protection Agency and the California Air Resources Board.

AQ 4.8 Expand, as appropriate, measures contained in the County's Fugitive Dust Reduction Program for the Coachella Valley to the entire County.

AQ 4.9 Require compliance with SCAQMD Rules 403 and 403.1, and support appropriate future measures to reduce fugitive dust emanating from construction sites.

AQ 4.10 Coordinate with the SCAQMD and MDAQMD to create a communications plan to alert those conducting grading operations in the County of first, second, and third stage smog alerts, and when wind speeds exceed 25 miles per hour. During these instances all grading operations should be suspended. (AI 111)

Energy Efficiency and Conservation:

AQ 5.1 Utilize source reduction, recycling and other appropriate measures to reduce the amount of solid waste disposed of in landfills.

AQ 5.4 Encourage the incorporation of energy-efficient design elements, including appropriate site orientation and the use of shade and windbreak trees to reduce fuel consumption for heating and cooling.

Particulate Matter:

AQ 15.1 Identify and monitor sources, enforce existing regulations, and promote stronger controls to reduce particulate matter.

Multi-jurisdictional Cooperation:

AQ 16.1 Cooperate with local, regional, state and federal jurisdictions to better control particulate matter.

Control Measures:

AQ 17.1 Reduce particulate matter from agriculture, construction, demolition, debris hauling, street cleaning, utility maintenance, railroad rights-of-way, and off-road vehicles to the extent possible. (AI 123)

AQ 17.3 Identify and create a control plan for areas within the County prone to wind erosion of soil.

AQ 17.4 Adopt incentives, regulations and/or procedures to manage paved and unpaved roads and parking lots so they produce the minimum practicable level of particulates. (AI 111)

AQ 17.5 Adopt incentives and/or procedures to limit dust from agricultural lands and operations, where applicable. (AI 123)

AQ 17.6 Reduce emissions from building materials and methods that generate excessive pollutants, through incentives and/or regulations.

**Table 2
State and Federal Criteria Pollutant Standards**

Air Pollutant	Concentration / Averaging Time		Most Relevant Effects
	California Standards	Federal Primary Standards	
Ozone (O ₃)	0.09 ppm/1-hour 0.07 ppm/8-hour	0.070 ppm/8-hour	(a) Decline in pulmonary function and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.
Carbon Monoxide (CO)	20.0 ppm/1-hour 9.0 ppm/8-hour	35.0 ppm/1-hour 9.0 ppm/8-hour	(a) Aggravation of angina pectoris and other aspects of coronary heart disease; (b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (c) Impairment of central nervous system functions; and (d) Possible increased risk to fetuses.
Nitrogen Dioxide (NO ₂)	0.18 ppm/1-hour 0.03 ppm/annual	100 ppb/1-hour 0.053 ppm/annual	(a) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (b) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheric discoloration.
Sulfur Dioxide (SO ₂)	0.25 ppm/1-hour 0.04 ppm/24-hour	75 ppb/1-hour 0.14 ppm/annual	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.
Suspended Particulate Matter (PM ₁₀)	50 µg/m ³ /24-hour 20 µg/m ³ /annual	150 µg/m ³ /24-hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in children; (c) Increased risk of premature death from heart or lung diseases in elderly.
Suspended Particulate Matter (PM _{2.5})	12 µg/m ³ / annual	35 µg/m ³ /24-hour 12 µg/m ³ /annual	
Sulfates	25 µg/m ³ /24-hour	No Federal Standards	(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonary disease; (d) Vegetation damage; (e) Degradation of visibility; (f) property damage.
Lead	1.5 µg/m ³ /30-day	0.15 µg/m ³ /3-month rolling	(a) Learning disabilities; (b) Impairment of blood formation and nerve conduction.
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer-visibility of 10 miles or more due to particles when humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.

Source: <https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf>

**Table 3
South Coast Air Basin Attainment Status**

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

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

MONITORED AIR QUALITY

The air quality at any site is dependent on the regional air quality and local pollutant sources. Regional air quality is determined by the release of pollutants throughout the air basin. Estimates of the existing emissions in the Basin provided in the Final 2016 AQMP prepared by SCAQMD (March 2017) indicate that collectively, mobile sources account for 60 percent of the VOC, 90 percent of the NO_x emissions, 95 percent of the CO emissions and 34 percent of directly emitted PM_{2.5}, with another 13 percent of PM_{2.5} 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 Perris Valley Air Monitoring Area (Area 24). The nearest air monitoring station to the project site is the Perris Monitoring Station (Perris Station). The Perris Station is located approximately 2.12 miles southeast of the project site at 237 1/2 N. D Street, Perris. As not all monitoring stations monitor all pollutants, data was also taken from the Lake Elsinore-W Flint Street Monitoring Station (Lake Elsinore Station) located approximately 10.77 miles southwest of the project site at 506 W Flint Street, Lake Elsinore. Table 4 presents the monitored pollutant levels from the Perris and Riverside Stations. However, it should be noted that due to the air monitoring stations distances from the project site, recorded air pollution levels at the air monitoring station reflect with varying degrees of accuracy, local air quality conditions at the project site.

Table 4 summarizes 2018 through 2020 published monitoring data, which is the most recent 3-year period available. The data shows that during the past few years, the project area has exceeded the ozone standards.

Ozone

During the 2018 to 2020 monitoring period, the State 1-hour concentration standard for ozone was exceeded between 28 and 34 days each year at the Perris Station. The State 8-hour ozone standard has been exceeded between 66 and 77 days each year over the past three years at the Perris Station. The Federal 8-hour ozone standard was exceeded between 64 and 74 days each year over the past three years at the Perris 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 NO₂, 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 Lake Elsinore Station did not record an exceedance of the state or federal 8-hour CO standard for the last three years.

Nitrogen Dioxide

The Lake Elsinore Station did not record an exceedance of the State or Federal NO₂ standards for the last three years.

Particulate Matter

The State 24-hour concentration standards for PM₁₀ was exceeded between two and six days each year over the last three years at the Perris Station. Over the past three years, the Perris Station did not record an exceedance of the Federal 24-hour standards for PM₁₀.

During the 2018 to 2020 monitoring period, there was insufficient data for the Federal 24-hour standard for PM_{2.5} at the Lake Elsinore Station.

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

**Table 4
Air Quality Monitoring Summary**

Pollutant (Standard) ¹		Year		
		2018	2019	2020
Ozone:	Maximum 1-Hour Concentration (ppm)	0.117	0.118	0.125
	Days > CAAQS (0.09 ppm)	31	28	34
	Maximum 8-Hour Concentration (ppm)	0.103	0.096	0.106
	Days > NAAQS (0.070 ppm)	67	64	74
	Days > CAAQS (0.070 ppm)	68	66	77
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)	0.041	0.038	0.044
	Days > CAAQS (0.18 ppm)	0	0	0
Inhalable Particulates (PM10):	Maximum 24-Hour Concentration (µg/m ³)	64.4	97.0	92.3
	Days > NAAQS (150 µg/m ³)	0	0	0
	Days > CAAQS (50 µg/m ³)	2	4	6
	Annual Average (µg/m ³)	30.2	25.8	33.4
Ultra-Fine Particulates (PM2.5): ²	Maximum 24-Hour Concentration (µg/m ³)	31.3	17.6	41.6
	Days > NAAQS (35 µg/m ³)	*	*	*
	Annual Average (µg/m ³)	6.7	*	7.2

Notes:

Source: <http://www.arb.ca.gov/adam/topfour/topfour1.php>. Data from the Perris 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 Lake Elsinore - W Flint 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.² 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.
- Cause the emission of TACs

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

² While the SCAQMD CEQA Air Quality Handbook contains significance thresholds for lead, Project construction and operation would not include sources of lead emissions and would not exceed the established thresholds for lead. Unleaded fuel and unleaded paints have virtually eliminated lead emissions from industrial land use projects such as the Project. As a result, lead emissions are not further evaluated herein.

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 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.³

Regional Air Quality

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

Local Air Quality

Project-related construction air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. In order to assess local air quality impacts the SCAQMD has developed Localized Significance Thresholds (LSTs) to assess the project-related air emissions in the project vicinity. The SCAQMD has also provided Final Localized Significance Thresholds Methodology (LST Methodology), June 2003, which details the methodology to analyze local air emission impacts. The Localized Significance Thresholds Methodology found that the primary emissions of concern are NO₂, CO, PM₁₀, and PM_{2.5}. Under the LST methodology, local air quality emissions from the project were analyzed using the SCAQMD's Mass Rate Localized Significance Thresholds Look-up Tables.

The significance thresholds for the local emissions of NO₂ and CO are determined by subtracting the highest background concentration from the last three years of these pollutants from Table 4 above, from the most restrictive ambient air quality standards for these pollutants that are outlined in the Localized Significance Thresholds. Table 5 shows the ambient air quality standards for NO₂, CO, and PM₁₀ and PM_{2.5}.

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

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.

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).

The potential for health risks due to project-related diesel particulate matter (DPM) emissions is examined in Section 3 of this report.

Odor Impacts

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

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

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

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

**Table 5
SCAQMD Air Quality Significance Thresholds**

Mass Daily Thresholds		
Pollutant	Construction (lbs/day)	Operation (lbs/day)
NOx	100	55
VOC	75	55
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3
Toxic Air Contaminants, Odor and GHG Thresholds		
TACs	Maximum Incremental Cancer Risk \geq 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas \geq 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 $\mu\text{g}/\text{m}^3$)	
PM10 -24-hour average		
Construction	10.4 $\mu\text{g}/\text{m}^3$	
Operations	2.5 $\mu\text{g}/\text{m}^3$	
PM2.5 -24-hour average		
Construction	10.4 $\mu\text{g}/\text{m}^3$	
Operations	2.5 $\mu\text{g}/\text{m}^3$	
SO2		
1-hour average	0.25 ppm	
24-hour average	0.04 ppm	
CO		
1-hour average	20 ppm (23,000 $\mu\text{g}/\text{m}^3$)	
8-hour average	9 ppm (10,000 $\mu\text{g}/\text{m}^3$)	
Lead		
30-day average	1.5 $\mu\text{g}/\text{m}^3$	
Rolling 3-month average	0.15 $\mu\text{g}/\text{m}^3$	
Quarterly average	1.5 $\mu\text{g}/\text{m}^3$	

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, TAC 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: site preparation of approximately 0.72 acres to remove existing concrete slabs and trees; grading of approximately 7.24 acres; construction of a 16,200 square foot general light industrial building (15,000 square foot footprint) which includes 13,800 square feet of warehouse uses and 2,400 square feet of office uses; paving of a parking lot with 167 trailer spaces and 38 vehicle spaces covering a total of approximately 255,056 square feet; and application of architectural coatings. See Appendix B for more details. Site preparation will include approximately 40 cubic yards of concrete to be crushed and hauled offsite. No import or export of material is anticipated during grading.

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

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.⁴

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 western portion of Riverside County for construction-related employee vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy truck operations. EMFAC2017 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour. Daily truck trips and CalEEMod default trip length data were used to assess roadway emissions from truck exhaust. The maximum daily emissions are estimated values for the worst-case day and do not represent the emissions that would occur for every day of project construction. The maximum daily emissions are compared to the SCAQMD daily regional numeric indicators. Detailed construction equipment lists, construction scheduling, and emission calculations are provided in Appendix B.

The project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent,

⁴ South Coast Air Quality Management District, California Emissions Estimator Model, <http://www.aqmd.gov/caleemod/>.

stabilizing ground cover on finished sites. In addition, projects that disturb 50 acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of the Project area (approximately 7.24 acres) a Fugitive Dust Control Plan or Large Operation Notification would not be required.

SCAQMD's Rule 403 minimum requirements require that the application of the best available dust control measures are 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 include in the CalEEMod modeling for the proposed project.

Per SCAQMD Rule 1113 as amended on February 5, 2016, 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) site preparation, (2) grading, (3) building construction, (4) paving, and (5) application of architectural coatings. Details pertaining to the project's construction timing and the type of equipment modeled for each construction phase are available in the CalEEMod output in Appendix B.

Construction-Related Regional Impacts

The construction-related criteria pollutant emissions for each phase are shown below in Table 6. Table 6 shows that none of the project's 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 TACs; and from construction-related odor impacts.

Local Air Quality Impacts from Construction

CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily disturbance activity possible for each piece of equipment. The Appendix A Calculation Details for CalEEMod prepared by CAPCOA (October 2017) provides equipment-specific grading rates. 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 2.5 acres during grading. The local air quality emissions from construction were analyzed using the SCAQMD's Mass Rate Localized Significance Thresholds Look-up Tables and the methodology described in Localized Significance Threshold

Methodology prepared by SCAQMD (revised July 2008). The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. The emission thresholds were calculated based on the Perris Valley source receptor area (SRA) 24 and a disturbance value of two acres per day, to be conservative. According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25-meter thresholds. The nearest sensitive receptors to the project site are the existing single-family detached residential dwelling units located approximately 235 feet (~72 meters) southwest, 275 feet (~84 meters) south, and 660 feet (~201 meters) west of the project site; therefore, to be conservative, the SCAQMD Look-up Tables for 50 meters was used. Table 8 shows the on-site emissions from the CalEEMod model for the different construction phases and the LST emissions thresholds.

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

Construction-Related Human Health Impacts

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

Construction-Related Toxic Air Contaminant Impacts

The greatest potential for TAC 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)⁵ and the SCAQMD *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis* (August 2003),⁶ 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 5.5 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 and the nearest sensitive receptors to the project site are located approximately 235 feet (~72 meters) southwest, 275 feet (~84 meters) south, and 660 feet (~201 meters) west of the project site.

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.

⁵ 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/crn/2015guidancemanual.pdf>.

⁶ 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>.

Construction-Related Odor Impacts

Potential sources that may emit odors during construction activities include the application of materials such as asphalt pavement. The objectionable odors that may be produced during the construction process are of 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
Site Preparation	On-Site ¹	1.00	10.47	5.82	0.01	3.06	1.78
	Off-Site ²	0.02	0.17	0.24	0.00	0.08	0.02
	Subtotal	1.03	10.64	6.06	0.01	3.14	1.80
Grading	On-Site ¹	1.95	20.86	15.27	0.03	3.70	2.20
	Off-Site ²	0.06	0.04	0.60	0.00	0.17	0.05
	Subtotal	2.01	20.89	15.87	0.03	3.87	2.25
Building Construction	On-Site ¹	1.71	15.62	16.36	0.03	0.81	0.76
	Off-Site ²	0.61	2.67	6.07	0.02	1.86	0.53
	Subtotal	2.32	18.28	22.43	0.05	2.67	1.29
Paving	On-Site ¹	1.87	11.12	14.58	0.02	0.57	0.52
	Off-Site ²	0.06	0.04	0.60	0.00	0.17	0.05
	Subtotal	1.93	11.16	15.18	0.02	0.74	0.57
Architectural Coating	On-Site ¹	11.89	1.41	1.81	0.00	0.08	0.08
	Off-Site ²	0.11	0.07	1.08	0.00	0.30	0.08
	Subtotal	12.00	1.48	2.89	0.01	0.39	0.16
Total for overlapping phases³		16.24	30.93	40.50	0.08	3.79	2.02
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 site preparation and grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.
- (2) Off-site emissions from equipment operated on public roads.
- (3) Construction, painting and paving phases may overlap.

**Table 7
Maximum Number of Acres Disturbed Per Day**

Activity	Equipment	Number	Acres/8hr-day	Total Acres
Site Preparation	Rubber Tired Dozers	1	0.5	0.5
	Crawler Tractors ¹	1	0.5	0.5
	Phase Total	-	-	1
Grading	Rubber Tired Dozers	1	0.5	0.5
	Graders	1	0.5	0.5
	Crawler Tractors ¹	3	0.5	1.5
	Phase Total	-	-	2.5

Notes:

Source: California Air Pollution Control Officers Association (CAPCOA), Appendix A Calculation Details for CalEEMod prepared (October 2017).

(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
Site Preparation	10.47	5.82	3.06	1.78
Grading	20.86	15.27	3.70	2.20
Building Construction	15.62	16.36	0.81	0.76
Paving	11.12	14.58	0.57	0.52
Architectural Coating	1.41	1.81	0.08	0.08
Total of overlapping phases ¹	28.15	32.76	1.46	1.37
SCAQMD Thresholds ²	200	1,262	20	6
Exceeds Threshold?	No	No	No	No

Notes:

Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 2 acres at a distance of 50 m, to be conservative, in SRA 24 Perris Valley.

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

(2) The nearest sensitive receptors are the existing single-family detached residential dwelling units located approximately 235 feet (~72 meters) southwest, 275 feet (~84 meters) south, and 660 feet (~201 meters) west of the project site; therefore, to be conservative, the 50 meter threshold was used.

Note: The project will disturb up to a maximum of 2.5 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 2022, 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 from the Harvill Trailer Storage Yard Project Trip Generation and Vehicle Miles Traveled Screening Analysis (Trip Generation and VMT Analysis) prepared by Ganddini Group, Inc. (January 2022) into the CalEEMod Model. The Trip Generation and VMT Analysis found that the proposed project would create approximately 396 vehicle trips per day (non-PCE) and 598 vehicle trips per day (PCE) with a trip generation rate of 7.26 trips per parking space per day. For use in the CalEEMod modeling, the trip generation rate was calculated to be 24.44 trips per thousand square foot per day. The program then applies the emission factors for each trip which is provided by the EMFAC2017 model to determine the vehicular traffic pollutant emissions.

The Trip Generation and VMT Analysis found that the proposed trailer parking lot would create 241 automobile round trips, 42 2-axle truck round trips, 45 3-axle truck round trips, and 68 4+-axle truck round trips per day (non-PCE). The vehicle mix for the trailer parking lot was changed in CalEEMod to match the Trip Generation and VMT Analysis (see Table 9). CalEEMod default trip percentage were utilized in the analysis..

Area Sources

Per the CAPCOA Appendix A Calculation Details for CalEEMod, area sources include emissions from consumer products, landscape equipment and architectural coatings. Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. As specifics were not known about the landscaping equipment fleet, CalEEMod defaults were used to estimate emissions from landscaping equipment. No changes were made to the default area source parameters.

Energy Usage

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

Project Impacts

The worst-case summer or winter criteria pollutant emissions created from the proposed project's long-term operations have been calculated and are shown below in Table 10. The results show that none of the SCAQMD regional thresholds would be exceeded. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

Operations-Related Local Air Quality Impacts

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

Local CO Emission Impacts from Project-Generated Vehicular Trips

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

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

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan). As discussed in the 1992 CO Plan, peak CO 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 Trip Generation and VMT Analysis showed that the proposed project would generate a maximum of approximately 396 daily vehicle trips. The existing average daily trips (ADT) along the road segment of Orange Avenue from the western driveway to Harvill Avenue, south of the project site, is 5,052 vehicles per day.⁷ Therefore, with the addition of all the project traffic along that road segment, the ADT would be 5,427. The 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan) showed that an intersection which has

⁷ Source: 2021. Harvill Trailer Storage Yard Project Noise Impact Analysis. Ganddini Group Inc. May 3. Table 9. Page 30.

a daily traffic volume of approximately 100,000 vehicles per day would not violate the CO standard. Therefore, as the ADT with the project traffic volume falls far short of 100,000 vehicles per day, no CO “hot spot” modeling was performed and no significant long-term air quality impact is anticipated to local air quality with the on-going use of the proposed project.

Local Air Quality Impacts from On-Site Operations

Project-related air emissions from on-site sources such as architectural coatings, landscaping equipment, on-site usage of natural gas appliances as well as the operation of vehicles on-site may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the South Coast Air Basin. The nearest sensitive receptors that may be impacted by the proposed project are the existing single-family detached residential dwelling units located approximately 235 feet (~72 meters) southwest, 275 feet (~84 meters) south, and 660 feet (~201 meters) west of the project site.

The local air quality emissions from on-site operations were analyzed according to the methodology described in Localized Significance Threshold Methodology, prepared by SCAQMD, revised July 2008. The Look-up Tables were developed by the SCAQMD in order to readily determine if the daily emissions of CO, NOx, PM10, and PM2.5 from the proposed project could result in a significant impact to the local air quality. Per SCAQMD staff, the 5-acre Look-up Table, which is the largest site available, can be used as a conservative screening analysis for on-site operational emissions to determine whether more-detailed dispersion modeling would be necessary. The proposed project was analyzed based on the Perris Valley source receptor area (SRA) 24 and as the site is 7.24 acres, used the thresholds for a five-acre project site, to be conservative.

Table 11 shows the on-site emissions from the CalEEMod model that includes natural gas usage, landscape maintenance equipment, and vehicles operating on-site and the calculated emissions thresholds. Per LST methodology, mobile emissions include only on-site sources which equate to approximately 10 percent of the project-related new mobile sources.⁸ The data provided in Table 11 shows that the on-going operations of the proposed project would not exceed SCAQMD local operational thresholds of significance discussed above. Therefore, the on-going operations of the proposed project would create a less than significant operations-related impact to local air quality due to on-site emissions and no mitigation would be required.

Operations-Related Human Health Impacts

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

The potential for health risks due to project-related diesel particulate matter (DPM) emissions is examined in Section 3 of this report.

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

⁸ The project site is approximately 0.2 miles in length at its longest point; therefore the on-site mobile source emissions represent approximately 1/34th of the shortest CalEEMod default distance of 6.9 miles. Therefore, to be conservative, 1/10th the distance (dividing the mobile source emissions by 10) was used to represent the portion of the overall mobile source emissions that would occur on-site.

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
CalEEMod Revised Vehicle Mix Parameters

CalEEMod Vehicle Type	Vehicle Mix from Traffic Analysis	CalEEMod Default Mix ¹		CalEEMod Revised Mix ²	
		Ratio	Number of Vehicles	Ratio	Number of Vehicles
Light Auto	Automobile	0.531	210	0.349	138
Light Truck < 3750 lbs	Automobile	0.056	22	0.037	15
Light Truck 3751-5750 lbs	Automobile	0.172	68	0.113	45
Med Truck 5751-8500 lbs	Automobile	0.144	57	0.094	37
Lite-Heavy Truck 8501-10,000 lbs	2-Axle Truck	0.027	11	0.083	33
Lite-Heavy Truck 10,001-14,000 lbs	2-Axle Truck	0.007	3	0.023	9
Med-Heavy Truck 14,001-33,000 lbs	3-Axle Truck	0.012	5	0.114	45
Heavy-Heavy Truck 33,001-60,000 lbs	4+-Axle Truck	0.019	7	0.172	68
Other Bus	--	0.001	0	0.000	0
Urban Bus	--	0.000	0	0.000	0
Motorcycle	Automobile	0.024	10	0.016	6
School Bus	--	0.001	0	0.000	0
Motor Home	--	0.006	2	0.000	0
Total		1.0	396	1.0	396

Notes:

- (1) Source: CalEEMod Version 2020.4.0 default values for Opening year of 2022.
- (2) Revised per the vehicle mix provided in the Trip Generation & VMT Analysis (Ganddin Group, Inc., January 2022) of 60.86% Autos, 10.61% 2-Axle Trucks, 11.36% 3-Axle Trucks and 17.17% 4+ Axle Trucks.

Table 10
Regional Operational Pollutant Emissions

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources ¹	0.49	0.00	0.02	0.00	0.00	0.00
Energy Usage ²	0.02	0.14	0.12	0.00	0.01	0.01
Mobile Sources ³	1.29	10.54	13.61	0.06	4.06	1.20
Total Emissions	1.80	10.68	13.75	0.06	4.07	1.21
SCAQMD Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

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

- (1) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.
- (2) Energy usage consists of emissions from generation of electricity and on-site natural gas usage.
- (3) Mobile sources consist of emissions from vehicles and road dust.

Table 11
Local Operational Emissions at the Nearest Receptors

On-Site Emission Source	On-Site Pollutant Emissions (pounds/day) ¹			
	NOx	CO	PM10	PM2.5
Area Sources ²	0.00	0.02	0.00	0.00
Energy Usage ³	0.14	0.12	0.01	0.01
Vehicle Emissions ⁴	1.05	1.36	0.41	0.12
Total Emissions	1.19	1.50	0.42	0.13
SCAQMD Local Significance Thresholds ⁵	302	2,178	10	3
Exceeds Threshold?	No	No	No	No

Notes:

- (1) Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 5 acres, to be conservative.
- (2) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.
- (3) Energy usage consists of emissions from on-site natural gas usage.
- (4) On-site vehicular emissions based on 1/10 of the gross vehicular emissions and road dust.
- (5) The nearest sensitive receptors are the existing single-family detached residential dwelling units located approximately 235 feet (~72 meters) southwest, 275 feet (~84 meters) south, and 660 feet (~201 meters) west of the project site; therefore, to be conservative, the 50 meter threshold was used.

CUMULATIVE AIR QUALITY IMPACTS

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

Project Specific Impacts

The project area is out of attainment for ozone, 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 NO_x, 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 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 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.

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

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>.

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 County of Riverside Land Use Plan defines the assumptions that are represented in the AQMP.

The project site has an existing County of Riverside Land Use Designation of Business Park (BP) on the Mead Valley Area Plan Land Use Plan and a Zoning Designation of Manufacturing – Service Commercial (M-SC). The County's General Plan states that the Business Park land use designation allows for employee-intensive uses, including research and development, technology centers, corporate and support office uses, clean industry and supporting retail uses. The project proposes to develop the site with a 16,200 square foot warehouse/office building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls. Therefore, the proposed project would be consistent with the County's existing land use and zoning designations. Therefore, the proposed project is not anticipated to exceed the AQMP assumptions for the project site and is found to be consistent with the AQMP for the second criterion.

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

3. DIESEL EMISSIONS HEALTH RISK ASSESSMENT

The on-going operation of the proposed project would generate toxic air contaminant emissions from diesel truck emissions created by the on-going operations of the proposed project. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person exposed to concentrations of toxic air contaminants over a 30-year lifetime will contract cancer, based on the use of revised Office of Environmental Health Hazard Assessment (OEHHA) risk-assessment methodology.

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

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

EMISSIONS INVENTORY DEVELOPMENT

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

Emission Source Estimates – DPM for Motor Vehicles

DPM emissions from the various sources were calculated using information derived from the project description, and mobile source emission factors from the CARB EMFAC2021 emissions factor model.¹⁰ Truck mix information was obtained from the Harvill Trailer Storage Yard Project Trip Generation and Vehicle Miles Traveled Screening Analysis (Trip Generation and VMT Analysis) prepared by Ganddini Group, Inc. (January, 2022).

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

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

Estimate of Vehicle Trips and Vehicle Types

The Trip Generation and VMT Analysis showed the project is expected to generate approximately 396 (non-passenger car equivalents) vehicle trips per day. Of those vehicle trips, 241 are automobile round trips, 42 are 2-axle truck round trips, 45 are 3-axle truck round trips, and 68 are 4+-axle truck round trips per day (non-passenger car equivalents).

¹⁰ Environmental Protection Agency (EPA), Official Release of EMFAC2017 Motor Vehicle Emission Factor Model for Use in the State of California. Source: <https://www.federalregister.gov/documents/2019/08/15/2019-17476/official-release-of-emfac2017-motor-vehicle-emission-factor-model-for-use-in-the-state-of-california>

Estimate of Emission Factors

The DPM emission factors for the various vehicle types were derived from the CARB EMFAC2021 mobile source emission model. The emissions factors were derived for Riverside County. Third trimester exposure used opening year (2022) emissions factors, 2-year factors (for infant exposure) reflect years 2023 and 2024, 14-year average factors (for child exposure during years 2-16) reflect emissions during the first 14 years of operation (2025 to 2038), the second 14 years of exposure (years 2039-2052) were used for assessment of exposure during years 16 to 30.

Emissions factors were estimated to establish the emissions generated while the vehicles travel off-site, along travel links from the entrance to the trailer parking stalls, and while idling at the maintenance building and near parking areas. All vehicles were assumed to travel on-site at a speed of 10 miles per hour. Off-site, the speeds along the roads were anticipated to average 35 miles per hour. Delivery vehicles were assumed to idle for a maximum of 15 minutes per vehicle per day (5 minutes per location: at the maintenance building and throughout the trailer parking areas), in keeping with the CARB Air Toxic Control Measure (ATCM), which regulates truck idling time (CARB 2005). The four different sets of emissions factors used in this assessment are detailed in Table 12. It should be noted that the DPM emissions on both the gram per mile and gram per idle hour bases decline beyond 2022 for all vehicle classes and in particular the heavy-heavy-duty truck class (the 4+ axle “big rig” trucks). This is due to the CARB emissions’ requirements on heavy-duty trucks that call for either the replacement of older trucks with cleaner trucks or the installation of diesel particulate matter filters on the truck fleet.

Emission Source Characterization

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

- Point source: A single, identifiable, local source of emissions; it is approximated in the AERMOD air dispersion model as a mathematical point in the modeling region with a location and emission characteristics such as height of release, temperature, etc., for example, a truck idle location where emissions are sourced from the truck’s exhaust stack while the vehicle is stationary.¹¹
- Line source: A series of volume sources along a path, for example, vehicular traffic volumes along a roadway.

Figure 3 provides the location of the project buildings, emission source locations, and the locations of the nearest sensitive receptors (single-family detached residential dwelling units located approximately 660 feet west of the project’s western property line, 235 feet southeast of the project’s southern property line, 285 feet south of the project site’s southern property line, 2,225 feet southeast of the project site’s eastern property line along Orange Avenue, and along Webster Avenue, and at the school use located approximately 2,500 feet northeast of the project site’s eastern property line). Residential receptors are shown as orange triangles labeled 1 through 8. The direction of on-site and off-site truck travel were obtained from the site plan and County truck routes.

¹¹ Environmental Protection Agency (EPA). Air Quality Dispersion Modeling – Preferred and Recommended Models. Source: <https://www.epa.gov/scram/air-quality-dispersion-modeling-preferred-and-recommended-models>

RECEPTOR NETWORK

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

DISPERSION MODELING

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

Model Selection

The assessment of air quality and health risk impacts from pollutant emissions from this project applied the USEPA AERMOD Model, which is the air dispersion model accepted by the SCAQMD for performing air quality impact analyses. AERMOD predicts pollutant concentrations from point, area, volume, line, and flare sources with variable emissions in terrain from flat to complex with the inclusion of building downwash effects from buildings on pollutant dispersion. It captures the essential atmospheric physical processes and provides reasonable estimates over a wide range of meteorological conditions and modeling scenarios. AERMOD View Version 10.2.1, EPA version No. 21112, was utilized for this analysis.

General Model Assumptions

A summary of Emission Configurations is shown in Table 13. The basic options used in the dispersion modeling are summarized in Table 14.

As indicated in Table 14 the analysis takes into account the effects of building downwash on the dispersion of emissions from the various sources located on the project's property. Building downwash occurs when the aerodynamic turbulence, induced by nearby buildings, causes pollutants emitted from an elevated source to be mixed rapidly toward the ground (downwash), resulting in potentially higher ground-level concentrations than if the buildings were not present. The AERMOD dispersion model contains algorithms to account for building downwash effects. The required information includes the location of the emission source; the location of adjacent buildings; and the building geometry in terms of length, width, and height. For purposes of this analysis, the emission source and building locations were taken from the project site plan. The proposed building geometries were estimated from the project plans, assuming a building height of 26.75 feet.

Meteorological Data

Meteorological data (processed with the ADJ_U option) from the Air District's Perris monitoring site was selected for this modeling application. Five full years of sequential meteorological data was collected at the site from January 1, 2010 to December 31, 2011 and from January 1, 2014 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:

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

Where:

Cancer Potency Factor = 1.1

$$\text{Dose-inh} = (\text{C-air} * \text{DBR} * \text{A} * \text{EF} * \text{ED} * \text{ASF} * \text{FAH} * 10^{-6}) / \text{AT}$$

Where:

Cair [Concentration in air ($\mu\text{g}/\text{m}^3$)] = (Calculated by AERMOD Model)

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

A [Inhalation absorption factor] = 1

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

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

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

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

10^6 [Micrograms to milligrams conversion]

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

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

Table 15 show the cancer risk for the unborn child during the 3rd trimester, Table 16 shows the cancer risk to infants (0-2 years), Table 17 shows the cancer risk to children ages 2 to 16 years and Table 18 shows the cancer risk as that child becomes an adult (years 16-30). The highest cancer risk corresponds to child cancer risk 2-16 years (see Table 17), and is at receptor 5, with a maximum risk of 1.26 in one million. The highest infant cancer risk 0-2 years is also at receptor 5; with a maximum risk of 1.32 in one million. Therefore, no children or infants are exposed to cancer risks in excess of 10 in a million.

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

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

Based on the above, ultra-conservative assumptions, the 30.25-year, cumulative carcinogenic health risk (3rd trimester [-0.25 to 0 years] + infant [0-2 years] + child [2-16 years] + adult [16-30 years]) to an individual born during the opening year of the project, and located in the project vicinity for the entire 30-year duration, is a maximum of 2.76 in a million at receptor location 5, as shown in Table 19. Therefore, the on-going

operations of the proposed project would result in a less than significant impact due to the cancer risk from diesel emissions created by the proposed project. As the residential cancer risk does not exceed 10 in a million.

Non-Cancer Risks

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

$$\text{HIDPM} = \text{CDPM}/\text{RELDPM}$$

Where,

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

The non-carcinogenic hazards to adult, child and infant receptors are also detailed in Tables 15 through 18 column (j). The RELDPM is $5 \mu\text{g}/\text{m}^3$. The Office of Environmental Health Hazard Assessment as protective for the respiratory system has established this concentration. Using the maximum DPM concentration from years 2022-2052, the resulting Hazard Index is:

$$\text{HIDPM} = 0.00435/5 = 0.0009$$

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

Table 12
DPM Emissions Factors for the Proposed Project

Vehicle Class	1-Year Average (Opening Year-2022)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.78107	0.06677	0.02624
Medium Heavy Duty Truck	0.10383	0.05583	0.01346
Heavy Heavy Duty Truck	0.01813	0.01835	0.01179

Vehicle Class	2-Year Average (2023-2024)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77826	0.05698	0.02283
Medium Heavy Duty Truck	0.07974	0.04177	0.00967
Heavy Heavy Duty Truck	0.01584	0.01237	0.00841

Vehicle Class	14-Year Average (First 14 years of Operation - 2025-2038)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.77023	0.04042	0.01760
Medium Heavy Duty Truck	0.02514	0.01351	0.00381
Heavy Heavy Duty Truck	0.01168	0.00993	0.00674

Vehicle Class	14-Year Average (Second 14 years of Operation - 2039-2052)		
	Idling (g/hr)	On-Site Travel (g/mi)	Off-Site Travel (g/mi)
Light Heavy Duty Truck 2	0.76138	0.03575	0.01666
Medium Heavy Duty Truck	0.00760	0.00339	0.00157
Heavy Heavy Duty Truck	0.00978	0.00823	0.00566

Notes:

Source: EMFAC2021.

**Table 13
Summary of Emission Configurations**

Emission Source Type	Geometric Configuration	Relevant Assumptions
Off-Site Diesel Truck Traffic	Line Sources	Release height: 12 feet
		Vehicle speed: 35 mph
		Length of the line source (Orange Ave Western Project Driveway to Harvill Ave, Harvill Ave north of Orange Ave, & Harvill Ave south of Orange Ave)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021
On-Site Diesel Truck Traffic	Line Sources	Release height: 12 feet
		Vehicle speed: 10 mph
		Length of the line source (Western Project Driveway to Eastern Project Driveway)
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
		Emission factor: CARB EMFAC2021
On-Site Diesel Truck Idling	Point Source located at the entrance/exit locations	Stack release height: 12 feet
		Stack release characteristics
		> Stack diameter: 0.1 meter (0.3 feet)
		> Stack velocity: 51.9 mps (170 feet/sec)
		> Stack temperature: 366 K (200° F)
		Idle time: 15 minutes per truck per day
		Vehicle types: heavy-heavy-duty, medium-heavy-duty and light-heavy-duty diesel delivery trucks
Emission factor: CARB EMFAC2021		

Table 14
General Modeling Assumptions - AERMOD Model

Feature	Option Selected
Terrain processing	AERMAP - NED GEOTIFF 30 meter
Emission source configuration	See Table 13
Regulatory dispersion options	Default
Land use	Urban, Riverside County Population: 2,189,641
Coordinate system	UTM, Zone 11 north
Building downwash	Included in calculations
Receptor height	0 meters above ground (per OEHHA methodology)
Meteorological data	SCAQMD Perris Meteorological Data

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

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
	1	0.00045			4.5E-07	1.00E+00	DPM	1.1E+00	0.01
2	0.00041	4.1E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
3	0.00042	4.2E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
4	0.00245	2.5E-06	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0005
5	0.00435	4.4E-06	1.00E+00	DPM	1.1E+00	0.06	5.0E+00	1.4E-03	0.0009
6	0.00113	1.1E-06	1.00E+00	DPM	1.1E+00	0.02	5.0E+00	1.4E-03	0.0002
7	0.00026	2.6E-07	1.00E+00	DPM	1.1E+00	0.00	5.0E+00	1.4E-03	0.0001
8	0.00028	2.8E-07	1.00E+00	DPM	1.1E+00	0.00	5.0E+00	1.4E-03	0.0001

Notes:

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

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

E= 10^X, i.e. E-02 = 10⁻²

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

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
	1	0.00041			4.1E-07	1.00E+00	DPM	1.1E+00	0.13
2	0.00037	3.7E-07	1.00E+00	DPM	1.1E+00	0.12	5.0E+00	1.4E-03	0.0001
3	0.00038	3.8E-07	1.00E+00	DPM	1.1E+00	0.12	5.0E+00	1.4E-03	0.0001
4	0.00222	2.2E-06	1.00E+00	DPM	1.1E+00	0.73	5.0E+00	1.4E-03	0.0004
5	0.00402	4.0E-06	1.00E+00	DPM	1.1E+00	1.32	5.0E+00	1.4E-03	0.0008
6	0.00102	1.0E-06	1.00E+00	DPM	1.1E+00	0.34	5.0E+00	1.4E-03	0.0002
7	0.00023	2.3E-07	1.00E+00	DPM	1.1E+00	0.08	5.0E+00	1.4E-03	0.0000
8	0.00025	2.5E-07	1.00E+00	DPM	1.1E+00	0.08	5.0E+00	1.4E-03	0.0001

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

E= 10^X, i.e. E-02 = 10⁻²

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

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
	1	0.00034			3.4E-07	1.00E+00	DPM	1.1E+00	0.12
2	0.00031	3.1E-07	1.00E+00	DPM	1.1E+00	0.11	5.0E+00	1.4E-03	0.0001
3	0.00032	3.2E-07	1.00E+00	DPM	1.1E+00	0.12	5.0E+00	1.4E-03	0.0001
4	0.00186	1.9E-06	1.00E+00	DPM	1.1E+00	0.67	5.0E+00	1.4E-03	0.0004
5	0.00347	3.5E-06	1.00E+00	DPM	1.1E+00	1.26	5.0E+00	1.4E-03	0.0007
6	0.00087	8.7E-07	1.00E+00	DPM	1.1E+00	0.31	5.0E+00	1.4E-03	0.0002
7	0.0002	2.0E-07	1.00E+00	DPM	1.1E+00	0.07	5.0E+00	1.4E-03	0.0000
8	0.00021	2.1E-07	1.00E+00	DPM	1.1E+00	0.08	5.0E+00	1.4E-03	0.0000

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

E= 10^X, i.e. E-02 = 10⁻²

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

Receptor ID (a)	Maximum Concentration		Weight Fraction (d)	Contaminant (e)	Carcinogenic Hazards		Noncarcinogenic Hazards		
	(ug/m3) (b)	(mg/m3) (c)			CPF (mg/kg/day) (f)	RISK (per million) (g)	REL (ug/m3) (h)	RfD (mg/kg/day) (i)	Index (j)
	1	0.00031			3.1E-07	1.00E+00	DPM	1.1E+00	0.01
2	0.00028	2.8E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
3	0.00029	2.9E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0001
4	0.00171	1.7E-06	1.00E+00	DPM	1.1E+00	0.07	5.0E+00	1.4E-03	0.0003
5	0.00319	3.2E-06	1.00E+00	DPM	1.1E+00	0.13	5.0E+00	1.4E-03	0.0006
6	0.00073	7.3E-07	1.00E+00	DPM	1.1E+00	0.03	5.0E+00	1.4E-03	0.0001
7	0.00018	1.8E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0000
8	0.00019	1.9E-07	1.00E+00	DPM	1.1E+00	0.01	5.0E+00	1.4E-03	0.0000

Notes:

OEHHA 95th percentile Exposure factors used to calculate TAC intake

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

E= 10^X, i.e. E-02 = 10⁻²

Table 19
Cumulative Carcinogenic Risk 30.25-Year Exposure Scenario

Receptor ID	Cumulative RISK (per million)
1	0.28
2	0.25
3	0.26
4	1.50
5	2.76
6	0.69
7	0.16
8	0.17

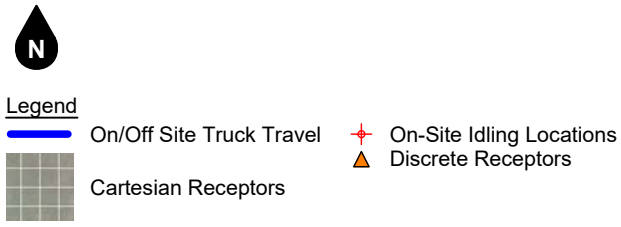
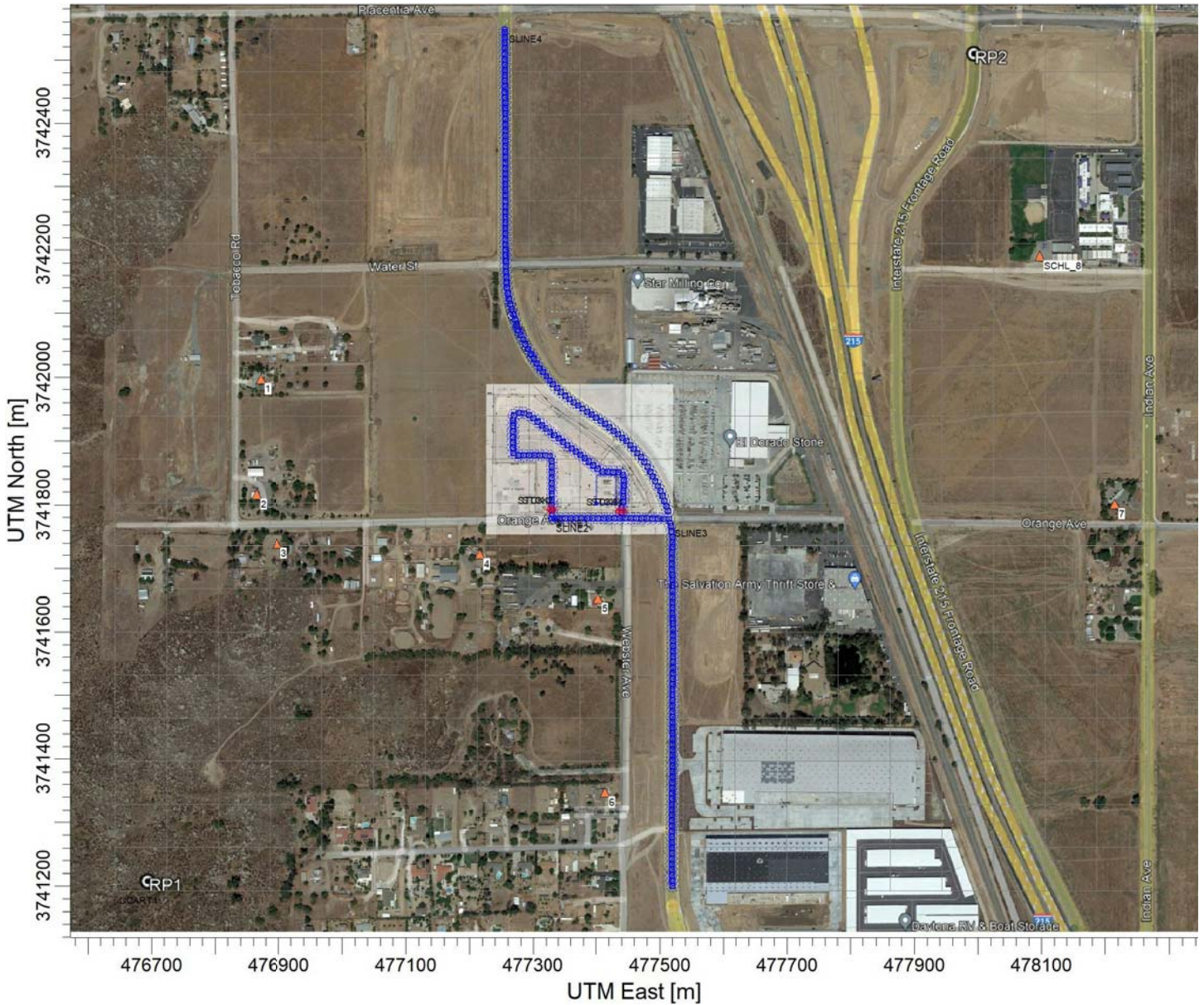


Figure 3
AERMOD Model Source and Receptor Placement

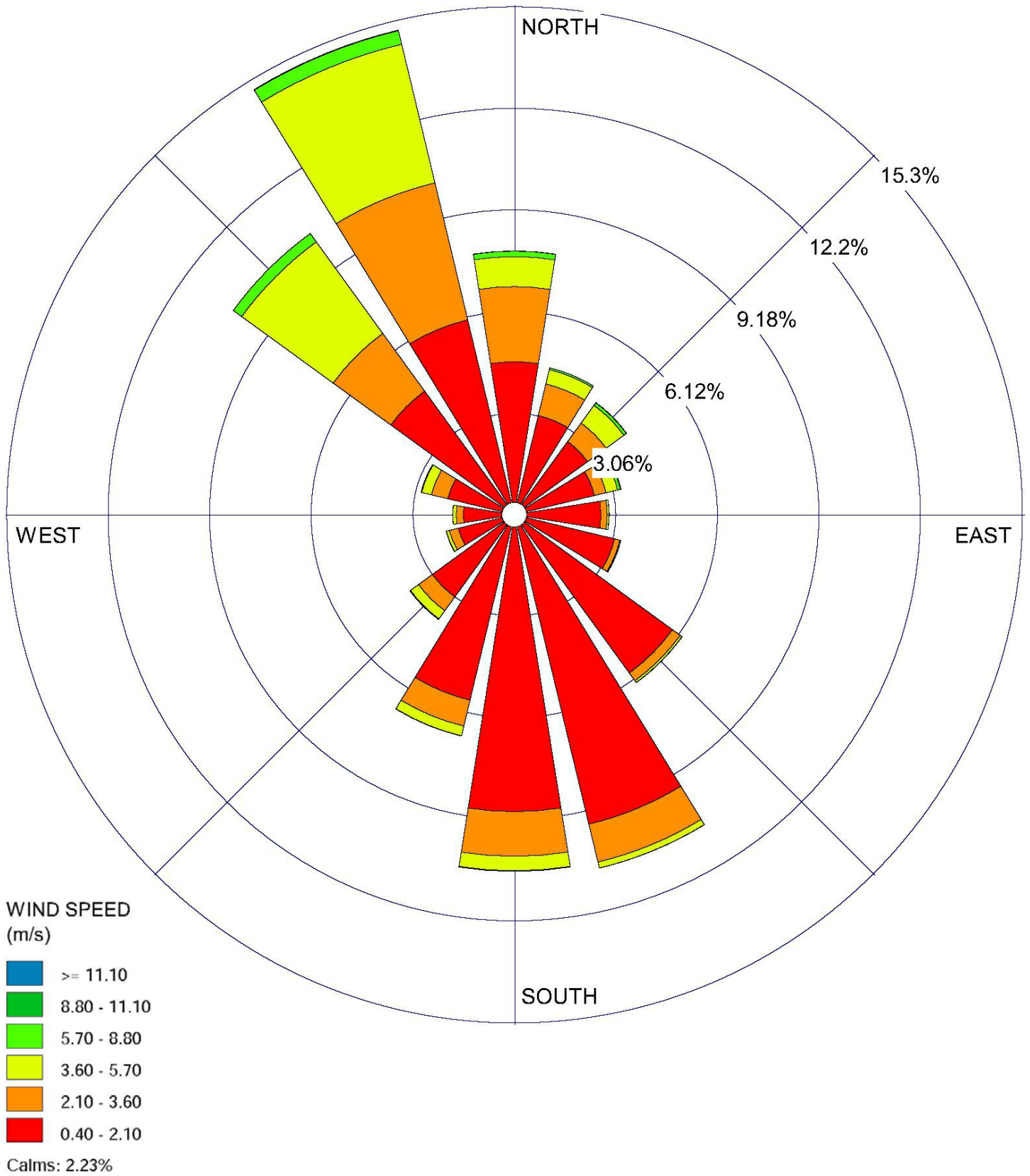
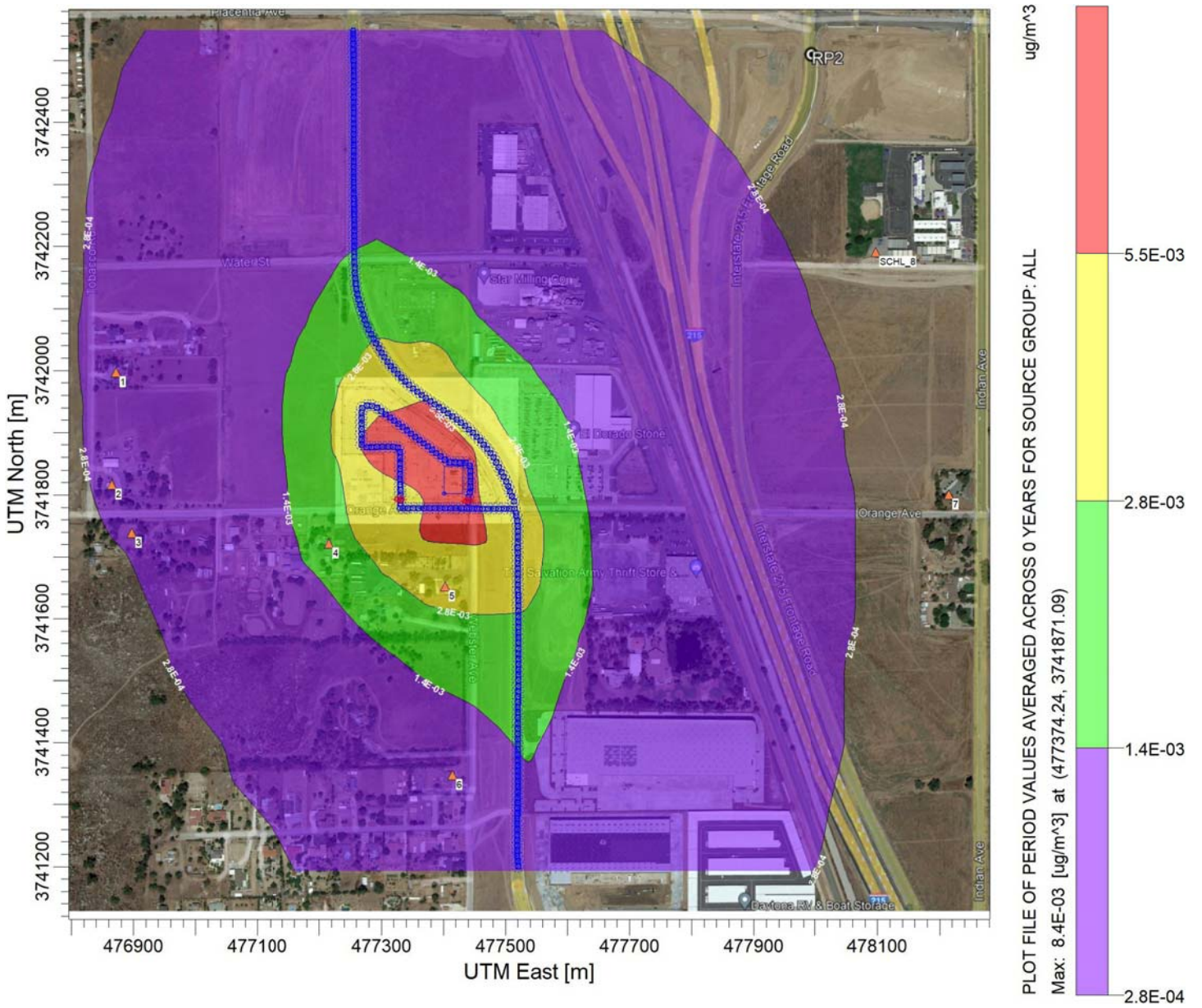


Figure 4
Wind Rose, Perris



Legend

Cancer Risk to Children 2-16 Years

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

Figure 5
Modeled Study Area Highest Annual DPM Emissions



4. GLOBAL CLIMATE CHANGE ANALYSIS

EXISTING GREENHOUSE GAS ENVIRONMENT

Constituent gases of the Earth's atmosphere, called atmospheric GHGs, 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 GHGs contributing to this process include carbon dioxide (CO₂), methane (CH₄), ozone, water vapor, nitrous oxide (N₂O), 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 GHGs 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 GHG emissions, followed by electricity generation. Emissions of CO₂ and nitrous oxide (NO_x) are byproducts of fossil fuel combustion. Methane, a potent GHG, results from off-gassing associated with agricultural practices and landfills. Sinks of CO₂, where CO₂ is stored outside of the atmosphere, include uptake by vegetation and dissolution into the ocean. The following provides a description of each of the GHGs 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 (CO₂)

The natural production and absorption of CO₂ 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. CO₂ 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 CO₂ 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 CO₂ 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 (CH₄)

CH₄ is an extremely effective absorber of radiation, although its atmospheric concentration is less than that of CO₂. Its lifetime in the atmosphere is brief (10 to 12 years), compared to some other GHGs (such as CO₂, N₂O, and Chlorofluorocarbons (CFCs)). CH₄ 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 (N₂O)

Concentrations of N₂O 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). N₂O 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 (C₂H₆) 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 (CHF₃), HFC-134a (CF₃CH₂F), and HFC-152a (CH₃CHF₂). 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 (CF₄) and hexafluoroethane (C₂F₆). Concentrations of CF₄ in the atmosphere are over 70 ppt. The two main sources of PFCs are primary aluminum production and semiconductor manufacturing.

Sulfur Hexafluoride (SF₆)

SF₆ is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF₆ has the highest global warming potential of any gas evaluated; 23,900 times that of CO₂. 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 (CO₂). The larger the GWP, the more that a given gas warms the Earth compared to CO₂ over that time period. The time period usually used for GWPs is 100 years. GWPs provide a common unit of measure, which allows analysts to add up emissions estimates of different gases (e.g., to compile a national GHG inventory), and allows policymakers to compare emissions reduction opportunities across sectors and gases. A summary of the atmospheric lifetime and the global warming potential of selected gases are summarized in Table 20. As shown in Table 20, the global warming potential of GHGs ranges from 1 to 22,800.

**Table 20
Global Warming Potentials and Atmospheric Lifetimes**

Gas	Atmospheric Lifetime	Global Warming Potential ¹ (100 Year Horizon)
Carbon Dioxide (CO ₂)	-- ²	1
Methane (CH ₄)	12	28-36
Nitrous Oxide (N ₂ O)	114	265-298
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 CO₂ 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 GHG 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 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 GHGs, 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 CO₂ and other GHGs 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.¹²

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 GHG 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)¹³ and requires an average fuel economy standard of 35.5 miles per gallon (mpg) and 250 grams of CO₂ per mile by model year 2016, based on USEPA calculation methods. These standards were formally adopted on April 1, 2010. In August 2012, standards were adopted for model year 2017 through 2025 for passenger cars and light-duty trucks. By 2025, vehicles are required to achieve 54.5 mpg (if GHG reductions are achieved exclusively through fuel economy improvements) and 163 grams of CO₂ per mile. According to the USEPA, a model year 2025 vehicle would emit one-half of the GHG emissions from a model year 2010 vehicle.¹⁴ In 2017, the USEPA recommended no change to the GHG standards for light-duty vehicles for model years 2022-2025.

Issued by NHTSA and EPA in March 2020 (published on April 30, 2020 and effective after June 29, 2020), the Safer Affordable Fuel-Efficient Vehicles Rule would maintain the CAFE and CO₂ standards applicable in model year 2020 for model years 2021 through 2026. The estimated CAFE and CO₂ standards for model year 2020 are 43.7 mpg and 204 grams of CO₂ per mile for passenger cars and 31.3 mpg and 284 grams of CO₂ per mile for light trucks, projecting an overall industry average of 37 mpg, as compared to 46.7 mpg under the standards issued in 2012. This Rule also excludes CO₂-equivalent emission improvements associated with air conditioning refrigerants and leakage (and, optionally, offsets for nitrous oxide and methane emissions) after model year 2020.¹⁵

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

¹² 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.

¹³ 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.

¹⁴ 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>.

¹⁵ National Highway Traffic Safety Administration (NHTSA) and U.S. Environmental Protection Agency (USEPA), 2018. Federal Register / Vol. 83, No. 165 / Friday, August 24, 2018 / Proposed Rules, The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks 2018. Available at: <https://www.gpo.gov/fdsys/pkg/FR-2018-08-24/pdf/2018-16820.pdf>.

regarding the preemption of particular state Greenhouse Gas (GHG) Emissions standards or Zero Emissions Vehicle (ZEV) mandates. As such, this document proposes to establish a clean slate with respect to NHTSA's regulations and interpretations concerning preemption under the Energy Policy and Conservation Act (EPCA).¹⁶

State of California

California Air Resources Board

CARB, a part of the 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 (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 TACs (Title 13 California Code of Regulations [CCR], Section 2485). The measure applies to diesel-fueled commercial vehicles with gross vehicle weight ratings greater than 10,000 pounds that are licensed to operate on highways, regardless of where they are registered. This measure generally does not allow diesel-fueled commercial vehicles to idle for more than 5 minutes at any given location with certain exemptions for equipment in which idling is a necessary function such as concrete trucks. While this measure primarily targets diesel particulate matter emissions, it has co-benefits of minimizing GHG emissions from unnecessary truck idling.

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

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

Assembly Bill 1493

California Assembly Bill 1493 enacted on July 22, 2002, required the CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. In 2005, the CARB submitted a "waiver" request to the EPA from a portion of the federal Clean Air Act in order to allow the State to set more stringent tailpipe emission standards for CO₂ and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the "waiver" request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State's request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009. After adopting these initial greenhouse gas standards for passenger vehicles, CARB adopted continuing standards for future model years.

¹⁶ <https://www.federalregister.gov/documents/2021/05/12/2021-08758/corporate-average-fuel-economy-cafe-preemption>

Executive Order S-3-05

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

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

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

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

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

Senate Bill 32 and Assembly Bill 197

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

Climate Change Scoping Plan (2008)

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

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

First Update to the Climate Change Scoping Plan (2014)

The First Update to the Scoping Plan was approved by CARB in May 2014 and builds upon the initial Scoping Plan with new strategies and recommendations. In 2014, CARB revised the target using the GWP values from the IPCC AR4 and determined that the 1990 GHG emissions inventory and 2020 GHG emissions limit is 431 MMTCO_{2e}. 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 MMTCO_{2e}.

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.

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

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

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

- (5) The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. The state board is required to approve a statewide greenhouse gas emissions limit equivalent to the statewide greenhouse gas emissions level in 1990 to be achieved by 2020 and to adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective greenhouse gas emissions reductions. This bill would require the state board to ensure that statewide greenhouse gas emissions are reduced to 40% below the 1990 level by 2030.
- (2) This bill would become operative only if AB 197 of the 2015–16 Regular Session is enacted and becomes effective on or before January 1, 2017. AB 197 requires that the California Air Resources Board, which directs implementation of emission-reduction programs, should target direct reductions at both stationary and mobile sources. AB 197 of the 2015-2016 Regular Session was approved on September 8, 2016.

Executive Order S-1-07

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

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

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

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

Senate Bill 97

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

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

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

Senate Bill 100

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

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

Senate Bill 375

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

The proposed project is located within the 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 GHG 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/ft² (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 GHG 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 USEPA 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 USEPA'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.

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).

Regional – South Coast Air Quality Management District

The project is within the South Coast Air Basin, which is under the jurisdiction of 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 GHG 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 GHG emission reductions in the SCAQMD. The SCAQMD will fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

A variety of agencies have developed GHG 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 CAPCOA 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 GHG 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 GHGs 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 GHG reduction plan. If a project is consistent with a qualifying local GHG reduction plan, it does not have significant GHG 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 thresholds of 10,000 MTCO₂e for industrial uses.

In order to assist local agencies with direction on GHG emissions, the SCAQMD 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 CO₂e 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 – County of Riverside

The County of Riverside's Climate Action Plan Update (CAP) was completed in November 2019. The CAP Update describes Riverside County's GHG emissions for the year 2017, projects how these emissions will increase into 2020, 2030, and 2050, and includes strategies to reduce emissions to a level consistent with the State of California's emissions reduction targets. The CAP Update sets a target to reduce community-wide GHG emission emissions by 15 percent from 2008 levels by 2020, 49 percent by 2030, and 83 percent by 2050.

Appendix D of the Riverside County CAP Update also states that project's that do not exceed the CAP's screening threshold of 3,000 MTCO₂e per year are considered to have less than significant GHG emissions and are in compliance with the County's CAP Update. Therefore, to determine whether the project's GHG emissions are significant, this analysis uses the County of Riverside CAP Update screening threshold of 3,000 MTCO₂e per year for all land use types. Projects that do not exceed emissions of 3,000 MTCO₂e per year are also required to include the following efficiency measures:

- Energy efficiency matching or exceeding the Title 24 requirements in effect as of January 2017, and
- Water conservation measures that matches the California Green Building Code in effect as of January 2017.

Projects that exceed emissions of 3,000 MTCO₂e per year are also required to use Screening Tables. Projects that garner at least 100 points will be consistent with the reduction quantities anticipated in the County's CAP Update. Consistent with CEQA Guidelines, such projects would be determined to have a less than significant individual and cumulative impact for GHG emissions. Those projects that do not garner 100 points using the Screening Tables will need to provide additional analysis to determine the significance of GHG emissions.

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 emissions²⁰.

Thresholds of Significance for this Project

To determine whether the project's GHG emissions are significant, this analysis uses the County of Riverside CAP Update screening threshold of 3,000 MTCO₂e per year for all land uses.

METHODOLOGY

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

CalEEMod Version 2020.4.0 was used to calculate the GHG emissions from the proposed project. The CalEEMod Annual Output for year 2022 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 Trip Generation and VMT Analysis 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. No changes were made to the default waste parameters.

Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. CalGreen Standards require a 20 percent reduction of indoor water use, reductions for this are shown in the mitigated CalEEMod output values. No other changes were made to the default water usage parameters.

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.

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 are shown below in Table 21 and the CalEEMod Model run for the proposed project is provided in Appendix C. Table 21 shows that the total for the proposed project's emissions (without credit for any reductions from sustainable design and/or regulatory requirements) would be 1,204.78 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 County of Riverside CAP Update threshold of 3,000 MTCO₂e per year for all land uses. Therefore, as the total emissions for the proposed project would not exceed the screening threshold of 3,000 MTCO₂e per year, operation of the proposed project would not create a significant cumulative impact to global climate change. No mitigation is required.

**Table 21
Project-Related Greenhouse Gas Emissions**

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO2	NonBio-CO ₂	CO ₂	CH ₄	N ₂ O	CO ₂ e
Area Sources ¹	0.00	0.01	0.01	0.00	0.00	0.01
Energy Usage ²	0.00	72.28	72.28	0.00	0.00	72.68
Mobile Sources ³	0.00	1,065.40	1,065.40	0.03	0.11	1,099.91
Waste ⁴	4.08	0.00	4.08	0.24	0.00	10.10
Water ⁵	1.19	8.65	9.84	0.12	0.00	13.79
Construction ⁶	0.00	8.19	8.19	0.00	0.00	8.29
Total Emissions	5.27	1,154.53	1,159.79	0.40	0.12	1,204.78
County of Riverside CAP Update Screening Threshold						3,000
Exceeds Threshold?						No

Notes:

Source: CalEEMod Version 2020.4.0 for Opening Year 2022.

- (1) Area sources consist of GHG emissions from 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 CO₂ and CH₄ 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 GHGs. As stated previously, the County of Riverside has a CAP; therefore, the project and its GHG emissions have been compared to the goals of the County of Riverside CAP Update.

Per the County's CAP Update, the County adopted its first Climate Action Plan (CAP) in 2015 which set a target to reduce emissions back to 1990 levels by the year 2020 as recommended in the AB 32 Scoping Plan. Furthermore, the goals and supporting measures within the County's CAP Update are proposed to reflect and ensure compliance with changes in the local and State policies and regulations such as SB 32 and California's 2017 Climate Change Scoping Plan. Therefore, compliance with the County's CAP in turn reflects consistency with the goals of the CARB Scoping Plan, Assembly Bill (AB) 32 and Senate Bill (SB) 32.

According to the County's CAP Update, projects that do not exceed emissions of 3,000 MTCO₂e per year are also required to include the following efficiency measures:

- Energy efficiency matching or exceeding the Title 24 requirements in effect as of January 2017, and
- Water conservation measures that matches the California Green Building Code in effect as of January 2017.

Per the County of Riverside CAP Update, projects that exceed emissions of 3,000 MTCO₂e per year are also required to use Screening Tables. Projects that garner at least 100 points will be consistent with the reduction quantities anticipated in the County's CAP Update and would be determined to have a less than significant individual and cumulative impact for GHG emissions.

As stated above, the GHG emissions generated by the proposed project would not exceed the County of Riverside CAP Update screening threshold of 3,000 metric tons per year of CO₂e. Furthermore, the proposed project is required to comply with both Title 24 and the California Green Building Code. Therefore, as the project would comply with the goals of the County of Riverside CAP Update, 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.

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. Currently, the County of Riverside CAP Update’s initial screening procedure is to determine if a project will emit 3,000 MTCO₂E per year or more. Projects that do not exceed this threshold require no further climate change analysis. Therefore, consistent with CEQA Guidelines Section 15064h(3),²² the County, 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 GHG Reduction Plans and Policies section above, the project would be consistent with the goals and objectives of the County of Riverside CAP Update.

Thus, given the project’s consistency with the County of Riverside CAP Update emission reduction goals, the project’s incremental contribution to GHG emissions and their effects on climate change would not be cumulatively considerable.

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 2020 included:

- Approximately 272,576 gigawatt hours of electricity;²³
- Approximately 2,074,302 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 2019, the year of most recent data currently available by the United States Energy Information Administration (EIA), energy use in California by demand sector was:

- Approximately 39.3 percent transportation;
- Approximately 23.2 percent industrial;
- Approximately 18.7 percent residential; and
- Approximately 18.9 percent commercial.²⁶

California's electricity in-state generation system generates approximately 190,913 gigawatt-hours each year. In 2020, California produced approximately 70 percent of the electricity it uses; the rest was imported from the Pacific Northwest (approximately 15 percent) and the U.S. Southwest (approximately 15 percent). Natural gas is the main source for electricity generation at approximately 48.4 percent of the total in-state electric generation system power as shown in Table 22.

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.

²³ California Energy Commission. Energy Almanac. Total Electric Generation. [Online] 2021.

<https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2020-total-system-electric-generation>.

²⁴ Natural Gas Consumption by End Use. U.S. Energy Information Administration. [Online] 2021.

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] 2021.

<https://www.energy.ca.gov/data-reports/planning-and-forecasting>

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 for building uses, 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 23 identifies SCE's specific proportional shares of electricity sources in 2020. As shown in Table 23, the 2020 SCE Power Mix has renewable energy at 30.9 percent of the overall energy resources, of which biomass and waste is at 0.1 percent, geothermal is at 5.5 percent, eligible hydroelectric is at 0.8 percent, solar energy is at 15.1 percent, and wind power is at 9.4 percent; other energy sources include large hydroelectric at 3.3 percent, natural gas at 15.2 percent, nuclear at 8.4 percent, other at 0.3 percent, and unspecified sources at 42 percent.

Natural Gas

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

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

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

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

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

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

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 2020, petroleum comprised about 89 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

³⁰ California Public Utilities Commission. Natural Gas and California. http://www.cpuc.ca.gov/natural_gas/

³¹ CARB. California Greenhouse Gas Emissions Inventory – 2021 Edition. <https://www.arb.ca.gov/cc/inventory/data/data.htm>

³² CARB. 2016 SIP Emission Projection Data. https://www.arb.ca.gov/app/emsmv/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>.

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

Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)

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

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

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

State Regulations

Integrated Energy Policy Report (IEPR)

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

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

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>.

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>

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)

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 4 of this report, the Department of Housing and Community Development (HCD) updated CALGreen through the 2019 Triennial Code Adoption Cycle. HCD modified the best management practices for stormwater pollution prevention adding Section 5.106.2 for projects that disturb

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

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

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

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

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

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

Senate Bill 100

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

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

Senate Bill 350

As previously discussed in Section 4 of this report, Senate Bill 350 (SB 350) was signed into law October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard (RPS) eligible resources, including solar, wind, biomass, geothermal, and others. In addition, SB 350 requires the state to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. To help ensure these goals are met and the

greenhouse gas emission reductions are realized, large utilities will be required to develop and submit Integrated Resource Plans (IRPs). These IRPs will detail how each entity will meet their customers resource needs, reduce greenhouse gas emissions and ramp up the deployment of clean energy resources.

Assembly Bill 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 CO₂ and other GHG emissions from passenger vehicles and light duty trucks. On December 19, 2007 the EPA announced that it denied the “waiver” request. On January 21, 2009, CARB submitted a letter to the EPA administrator regarding the State’s request to reconsider the waiver denial. The EPA approved the waiver on June 30, 2009. Although aimed at reducing GHG emissions, specifically, a co-benefit of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

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

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

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

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

California Air Resources Board

CARB’s Advanced Clean Cars Program

Closely associated with the Pavley regulations, the Advanced Clean Cars emissions control program was approved by CARB in 2012. The program combines the control of smog, soot, and GHGs with requirements for greater numbers of zero-emission vehicles for model years 2015–2025.¹⁵ The components of the Advanced Clean Cars program include the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulation, which requires manufacturers to produce an increasing number of pure ZEVs (meaning battery

electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years.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, from 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 3 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.

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:

³⁸ California Air Resources Board, California's Advanced Clean Cars Program, January 18, 2017. www.arb.ca.gov/msprog/acc/acc.htm.

- 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 respectively, of this report, were also utilized for this analysis. The CalEEMod outputs detail project related construction equipment, transportation energy demands, and facility energy demands.

Construction Energy Demands

The construction schedule is anticipated to occur no sooner than the beginning of June 2022, last until mid-November 2022, and be completed in one phase. Staging of construction vehicles and equipment will occur on-site. The approximately 5.5-month schedule is relatively short and the project site is approximately 7.24 acres.

Construction Equipment Electricity Usage Estimates

As stated previously, Electrical service will be provided by SCE. The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed project. Based on the 2017 National Construction Estimator, Richard Pray (2017)³⁹, 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 16,200 square foot maintenance building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls. Based on Table 24, the total power cost of the on-site electricity usage during the construction of the proposed project is estimated to be approximately \$206.71. Furthermore, as of May 14, 2021, SCE's general service rate schedule (GS-1) is approximately \$0.11 per kWh of electricity.⁴⁰ As shown in Table 24, the total electricity usage from project construction related activities is estimated to be approximately 1,879 kWh.

Construction Equipment Fuel Estimates

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

- Construction schedule of 5.5 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

³⁹ Pray, Richard. 2017 National Construction Estimator. Carlsbad : Craftsman Book Company, 2017.

⁴⁰ Southern California Edison (SCE). Rates & Pricing Choices: General Service/Industrial Rates. https://library.sce.com/content/dam/sce-doclib/public/regulatory/tariff/electric/schedules/general-service-&-industrial-rates/ELECTRIC_SCHEDULES_GS-1.pdf

- Aggregate fuel consumption rate for all equipment was estimated at 18.5 hp-hr/gallon (from CARB's 2017 Emissions Factors Tables and fuel consumption rate factors as shown in Table D-21 of the Moyer Guidelines: (https://www.arb.ca.gov/msprog/moyer/guidelines/2017gl/2017_gl_appendix_d.pdf).
- Diesel fuel would be the responsibility of the equipment operators/contractors and would be sources within the region.
- Project construction represents a "single-event" for diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources during long term operation.

Using the CalEEMod data input for the air quality and greenhouse gas analyses (Sections 2 and 4 of this report), the project's construction phase would consume electricity and fossil fuels as a single energy demand, that is, once construction is completed their use would cease. CARB's 2017 Emissions Factors Tables show that on average aggregate fuel consumption (gasoline and diesel fuel) would be approximately 18.5 hp-hr-gal. Table 25 shows the results of the analysis of construction equipment.

As presented in Table 25, project construction activities would consume an estimated 16,711 gallons of diesel fuel. As stated previously, project construction would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

Construction Worker Fuel Estimates

It is assumed that construction worker trips are from light duty autos (LDA), light duty truck 1 (LDT1), and light duty truck 2 (LDT2) at a mix of 50 percent/25 percent/25 percent, respectively, along area roadways.⁴¹ With respect to estimated VMT, the construction worker trips would generate an estimated 183,677 VMT. Data regarding project related construction worker trips were based on CalEEMod 2020.4.0 model defaults.

Vehicle fuel efficiencies for construction workers were estimated in the air quality and greenhouse gas analyses (Sections 2 and 4 of this report) using information generated using CARB's 2021 EMFAC model (see Appendix C for details). An aggregate fuel efficiency of 26.35 miles per gallon (mpg) was used to calculate vehicle miles traveled for construction worker trips. Table 26 shows that an estimated 6,971 gallons of fuel would be consumed for construction worker trips.

Construction Vendor/Hauling Fuel Estimates

Tables 27 and 28 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 30,736 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 site preparation would use medium to heavy duty vehicles with an average fuel consumption of 7.59 mpg for medium heavy duty trucks and 5.87 for heavy heavy duty trucks (see Appendix D for details).⁴² Tables 27 and 28 show that an estimated 5,569 gallons of fuel would be consumed for vendor and hauling trips.

Construction Energy Efficiency/Conservation Measures

Construction equipment used over the approximately 5.5-month construction phase would conform to CARB regulations and California emissions standards and is evidence of related fuel efficiencies. There are no

⁴¹ CalEEMod User's Guide (May 2021) states that the CalEEMod default fleet mix for worker trips includes light duty autos and light duty trucks, LDA, LDT1, LDT2, at a mix of 50%/25%/25%, respectively.

⁴² CalEEMod User's Guide (May 2021) states that the CalEEMod default fleet mix for vendor trips includes medium-heavy duty and heavy-heavy duty trucks, MHDT and HHDT, at a mix of 50%/50%.

unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

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

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

Operational Energy Demands

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

Transportation Fuel Consumption

Using the CalEEMod output from the air quality and greenhouse gas analyses (Sections 2 and 4 of this report), it is assumed that an average trip for autos and light trucks was assumed to be 6.9 miles and 3- 4-axle trucks were assumed to travel an average of 16.6 miles.⁴³ In order to present a worst-case scenario, it was assumed that vehicles would operate 365 days per year. Table 29 shows the estimated annual fuel consumption for all classes of vehicles from autos to heavy-heavy trucks.⁴⁴

The proposed project would generate 396 trips per day. The vehicle fleet mix was used from the CalEEMod output. Table 29 shows that an estimated 136,704 gallons of fuel would be consumed per year for the operation of the proposed project.

Trip generation and VMT generated by the proposed project are consistent with other similar industrial uses of similar scale and configuration as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (20th Edition, 2017). That is, the proposed project does not propose uses or operations that would inherently result in excessive and wasteful vehicle trips and VMT, nor associated excess and wasteful vehicle energy consumption. Furthermore, the state of California consumed approximately 4.2 billion gallons of diesel and 15.1 billion gallons of gasoline in 2015.^{45,46} 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.

⁴³ CalEEMod default distance for H-W (home-work) or C-W (commercial-work) is 16.6 miles; 6.9 miles for H-O (home-other) or C-O (commercial-other).

⁴⁴ Average fuel economy based on aggregate mileage calculated in EMFAC 2021 for opening year (2022). See Appendix C for EMFAC output.

⁴⁵ <https://www.energy.ca.gov/data-reports/energy-almanac/transportation-energy/california-gasoline-data-facts-and-statistics>

⁴⁶ <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 SCE) 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 30.

As shown in Table 30, the estimated electricity demand for the proposed project is approximately 249,974 kWh per year. In 2020, the non-residential sector of the County of Riverside consumed approximately 8,014 million kWh of electricity.⁴⁷ In addition, the estimated natural gas consumption for the proposed project is approximately 523,746 kBtu per year. In 2020, the non-residential sector of the County of Riverside consumed approximately 135 million therms of gas.⁴⁸ Therefore, the increase in both electricity and natural gas demand from the proposed project is insignificant compared to the County's 2020 non-residential sector demand.

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

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

RENEWABLE ENERGY AND ENERGY EFFICIENCY PLAN CONSISTENCY

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

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

Regarding Pavley (AB 1493) regulations, an individual project does not have the ability to comply or conflict with these regulations because they are intended for agencies and their adoption of procedures and protocols for reporting and certifying GHG emission reductions from mobile sources. However, the vehicles associated with the proposed project would be required to comply with federal and state fuel efficiency standards.

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 goals of County of Riverside CAP Update. The CAP includes measures on energy efficiency and clean energy use. The project's consistency

⁴⁷ California Energy Commission, Electricity Consumption by County. <https://ecdms.energy.ca.gov/elecbycounty.aspx>

⁴⁸ California Energy Commission, Gas Consumption by County. <http://ecdms.energy.ca.gov/gasbycounty.aspx>

with applicable energy-related CAP reduction measures is provided in Table 31. As shown in Table 31, the project is consistent with the applicable energy-related measures.

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 trailer parking yard project that is not proposing any additional features that would require a larger energy demand than other trailer parking yard projects of similar scale and configuration. The energy demands of the project are anticipated to be accommodated within the context of available resources and energy delivery systems. The project would therefore not cause or result in the need for additional energy producing or transmission facilities. The project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservation goals within the State of California. Notwithstanding, the project proposes trailer parking uses and will not have any long-term effects on an energy provider's future energy development or future energy conservation strategies.

Table 22
Total Electricity System Power (California 2020)

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

Notes:

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

Table 23
SCE 2020 Power Content Mix

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

Notes:

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

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

Table 24
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	16.200	5.5	\$206.71

Cost per kWh	Total Project Construction Electricity Usage (kWh)
\$0.11	1,879

*Assumes the project will be under the GS-1 General Service rate under SCE.

**Table 25
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
Site Preparation	10	Rubber Tired Dozers	1	8	247	0.4	790	427
	10	Tractors/Loaders/Backhoes	1	8	97	0.37	287	155
Grading	20	Excavators	1	8	158	0.38	480	519
	20	Graders	1	8	187	0.41	613	663
	20	Rubber Tired Dozers	1	8	247	0.4	790	854
	20	Tractors/Loaders/Backhoes	3	8	97	0.37	861	931
Building Construction	85	Cranes	1	7	231	0.29	469	2155
	85	Forklifts	3	8	89	0.2	427	1963
	85	Generator Sets	1	8	84	0.74	497	2285
	85	Tractors/Loaders/Backhoes	3	7	97	0.37	754	3463
	85	Welders	1	8	46	0.45	166	761
Paving	20	Pavers	2	8	130	0.42	874	944
	20	Paving Equipment	2	8	132	0.36	760	822
	20	Rollers	2	8	80	0.38	486	526
Architectural Coating	20	Air Compressors	1	6	78	0.48	225	243
CONSTRUCTION FUEL DEMAND (gallons of diesel fuel)								16,711

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 26
Construction Worker Fuel Consumption Estimates

Phase	Number of Days	Worker Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg) ²	Estimated Fuel Consumption (gallons)
Site Preparation	10	5	14.7	735	26.35	28
Grading	20	15	14.7	4,410	26.35	167
Building Construction	85	133	14.7	166,184	26.35	6,307
Paving	20	15	14.7	4,410	26.35	167
Architectural Coating	20	27	14.7	7,938	26.35	301
Total Construction Worker Fuel Consumption						6,971

Notes:

- (1) Assumptions for the worker trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.
- (2) CalEEMod worker vehicle class is based on an LD_Mix, which, per CalEEMod User's Guide (May 2021), includes LDA, LDT1, and LDT2 at a mix of 50%/25%/25%, respectively.

Table 27
Construction Vendor Fuel Consumption Estimates (MHD & HHDT Trucks)¹

Phase	Number of Days	Vendor Trips/Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg) ²	Estimated Fuel Consumption (gallons)
Site Preparation	10	2	6.9	138	6.73	21
Grading	20	0	6.9	0	6.73	0
Building Construction	85	52	6.9	30,498	6.73	4,532
Paving	20	0	6.9	0	6.73	0
Architectural Coating	20	0	6.9	0	6.73	0
Total Construction Vendor Fuel Consumption						4,552

Notes:

- (1) Assumptions for the vendor trip length and vehicle miles traveled are consistent with CalEEMod 2020.4.0 defaults.
- (2) CalEEMod vendor vehicle class is based on an HDT_Mix, which, per CalEEMod User's Guide (May 2021), includes HHDT and MHDT at a mix of 50%/50%.

Table 28
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)
Site Preparation	10	5	20	100	5.81	17
Grading	20	0	20	0	5.81	0
Building Construction	85	0	20	0	5.81	0
Paving	20	0	20	0	5.81	0
Architectural Coating	20	0	20	0	5.81	0
Total Construction Hauling Fuel Consumption						17

Notes:

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

Table 29
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	138	6.9	952	29.69	32.07	11,706
Light Truck	Automobile	15	6.9	104	23.58	4.39	1,602
Light Truck	Automobile	45	6.9	311	22.57	13.76	5,021
Medium Truck	Automobile	37	6.9	255	18.67	13.67	4,991
Light Heavy Truck	2-Axle Truck	33	6.9	228	14.67	15.52	5,665
Light Heavy Truck 10,000 lbs +	2-Axle Truck	9	6.9	62	14.12	4.40	1,605
Medium Heavy Truck	3-Axle Truck	45	16.6	747	7.59	98.42	35,923
Heavy Heavy Truck	4-Axle Truck	68	16.6	1,129	5.87	192.30	70,189
Total		396	--	3,787	-	374.53	--
Total Annual Fuel Consumption							136,704

Notes:

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

Table 30
Project Annual Operational Energy Demand Summary

Natural Gas Demand	kBTU/year ^{1,2}
General Light Industry	523,746
Total	523,746

Electricity Demand	kWh/year
General Light Industry	160,704
Parking Lot	89,270
Total	249,974

Notes:

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

Table 31
Project Consistency with County of Riverside CAP Energy Reduction Measures¹

Applicable Energy Related CAP Reduction Measures		Project Compliance with Measure
Energy Efficiency		
R1-EE1: California Building Code Title 24	California's building efficiency standards are updated regularly to incorporate new energy efficiency technologies.	No Conflict. The proposed project is required to comply with the California Building Code Title 24.
R2-EE6: Energy Efficiency Training, Education and Recognition in the Commercial Sector	Education is at the core of attaining energy efficiency goals. Specific education measures emphasize the critical role of education in achieving energy efficiency. This measure provides County staff with a framework to interact with and educate the community about behavioral and technological changes that can increase energy efficiency in commercial buildings. Potential actions for this measure include: -Post energy-efficiency information or links on websites and/or social media and provide materials at public events -Set up an email list for blasts of new information or training sessions. -Encourage business owners to visit SCE Energy Education Centers for energy efficiency resources. -Promote and manage energy efficiency programs which are not already in the purview of Energy Service Providers. -Invite building inspectors to hold trainings semi-annually on energy efficiency and Title 24.	No Conflict. The proposed project involves construction of a 16,200 square foot maintenance building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls. The proposed project would not hinder the County's energy education and training for the commercial sector.
R2-EE7: Increase Business Participation in Existing Energy Efficiency Programs	There are many energy efficiency opportunities that are low-cost for businesses to initiate that would result in cost-savings over time. SCE and SoCalGas offer many rebates and incentives to purchasing energy-efficient appliances and lights. As many business owners may be unaware that the opportunities exist, this measure would allow for the County to increase the participation of businesses in existing energy-efficiency programs that are low-cost and would provide financial benefits. Potential action for this measure includes: -Partner with SCAG, WRCOG, SCE, and SoCalGas for outreach events.	No Conflict. The proposed project involves construction of a 16,200 square foot maintenance building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls. The proposed project would not hinder the County's partnering with SCAG, WRCOG, SCE, and SoCalGas for outreach events.
R2-EE8: Non-Residential Building Energy Audits	Commercial energy audits are necessary to identify cost-effective opportunities for energy savings and for business owners to take practical actions to increase energy efficiency. The audits can be established or promoted by various existing programs. The potential action for this measure is: -Promote the SCE energy audit program for residents within the SCE service area and the Home Energy Saver Do It Yourself online energy audits for the IID service area.	No Conflict. The proposed project involves construction of a 16,200 square foot maintenance building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls. The proposed project would not hinder the SCE energy audit program.
R2-EE11: Exceed Energy Efficiency Standards in New Commercial Units	County planners have a unique opportunity to inform and encourage developers to apply new energy efficiency opportunities in new development. This measure would educate County staff to encourage and implement energy efficiency beyond that required by current Title 24 standards. This measure would also ensure that as Title 24 standards are updated, County staff would be well informed and could implement updates quickly and effectively. Potential actions for this measure include: -Educate County staff and developers on future Title 24 updates and additional energy efficiency opportunities for new non-residential development. -Promote Tier 1 and Tier 2 Green Building Ratings such as LEED, Build It Green, or Energy Star®- certified buildings. -Establish online permitting to facilitate new non-residential building energy efficiency programs. -Comply with State requirements on new non-residential buildings, such as Net Zero Energy Buildings for all new non-residential development meeting zero net-energy use by 2030.	No Conflict. The proposed project involves construction of a 16,200 square foot maintenance building for a surface trailer storage yard and is required to comply with the California Building Code Title 24.
Clean Energy		
R1-CE1: Renewable Portfolio Standard	Senate Bills (SBs) 1075 (2002) and 107 (2006) created the State's Renewable Portfolio Standard (RPS), and SB 100 (2018) further requires the energy providers to derive 33 percent, 60 percent, and 100 percent of electricity from qualified renewable sources by 2020, 2030, and 2045, respectively. The RPS is anticipated to lower emission factors (i.e., fewer GHG emissions per kWh used) State-wide. Therefore, reductions from RPS are taken for energy embedded in water, as well as commercial/industrial and residential electricity.	No Conflict. The proposed project project involves construction of a 16,200 square foot maintenance building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls and would not hinder energy providers from deriving their electricity from qualified renewable sources.
Advanced Measures		
R2-L1: Tree Planting for Shading and Energy Saving	Trees and vegetation lower surface and air temperatures by providing shade and through evapotranspiration, making vegetation a simple and effective way to reduce urban heat islands. Potential actions for this measure include: -Work with the community to support nonprofit tree-planting groups within the County consisting of volunteers to plant and care for trees correctly and safely. -Develop and promote a County tree-planting program for new development at plan check.	No Conflict. The proposed project involves construction of a 16,200 square foot maintenance building for a surface trailer storage yard with 167 trailer stalls and 38 vehicle parking stalls that includes the planting of 89 new trees.
R2-L2: Light Reflecting Surfaces for Energy Saving	Replacing surface areas with light-reflecting materials can decrease heat absorption and lower outside air temperature. Both roofs and pavements are ideal surfaces for taking advantage of this advanced technology. Potential actions for this measure include: -Comply with Title 24 requirements on installing enhanced cool roofs. -Comply with Title 24 requirements on installing cool pavements.	No Conflict. The proposed project is required to comply with the California Building Code Title 24.

Notes:

(1) Source: County of Riverside Climate Action Plan Update, November 2019.

6. EMISSIONS REDUCTION MEASURES

CONSTRUCTION MEASURES

Adherence to SCAQMD Rule 403 is required.

No construction mitigation is required.

OPERATIONAL MEASURES

No operational measures are required.

7. REFERENCES

California Air Pollution Control Officers Association

2009 Health Risk Assessments for Proposed Land Use Projects

California Air Resources Board

2008 Resolution 08-43

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

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

2008 Climate Change Scoping Plan, a framework for change.

2011 Supplement to the AB 32 Scoping Plan Functional Equivalent Document

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

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

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

2022 Historical Air Quality, Top 4 Summary

County of Riverside

2015 County of Riverside General Plan. December 8.

2019 County of Riverside Climate Action Plan Update. November.

Ganddini Group, Inc.

2022 Harvill Trailer Storage Yard Project Trip Generation & Vehicle Miles Traveled Screening Analysis. January 13.

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.

2022 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

Appendix B CalEEMod Model Daily Emissions Printouts

Appendix C AERMOD Model Printouts

Appendix D CalEEMod Model Annual Emissions Printouts and EMFAC Data

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 ₂ e	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 Significance Thresholds
MTCO ₂ e	Metric tons of carbon dioxide equivalent
MMTCO ₂ e	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NO _x	Nitrogen Oxides
NO ₂	Nitrogen dioxide
N ₂ O	Nitrous oxide
O ₃	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM ₁₀	Particles that are less than 10 micrometers in diameter
PM _{2.5}	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
SO _x	Sulfur Oxides
TAC	Toxic air contaminants
VOC	Volatile organic compounds

APPENDIX B

CALEEMOD MODEL DAILY EMISSIONS PRINTOUTS

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

**19365 Harvill Trailer Storage Yard
Riverside-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	16.20	1000sqft	0.34	16,200.00	0
Other Non-Asphalt Surfaces	1.04	Acre	1.04	45,302.40	0
Parking Lot	205.00	Space	5.86	255,056.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 7.24 ac w/ 16.2 TSF (w/ 15 TSF footprint) warehouse/office, 205 parkg spaces (includes 167 trailer stalls & 38 vehicle stalls) with paving covering ~255.056 TSF, & rmndr ~1.04 ac landscaping.

Construction Phase - Construction anticipated to begin June 2022 & be completed by mid-November 2022.

Off-road Equipment - Site prep of ~0.72 ac (~10% of site) to remove existing trees & concrete slabs; therefore, per CalEEMod User's Guide, ~2 pieces of equipment needed for a 1-acre site.

Trips and VMT - ~2 vendor trips added to site prep to account for water truck use.

Grading - Site anticipated to balance. Site prep to remove existing trees & concrete slabs, includes ~40 CY of concrete to be crushed.

Vehicle Trips - Per Trip Gen & VMT Analysis, project to genreate 396 trips. 396 trips/16.2 TSF = 24.44 trips/TSF/day. CalEEMod default distances & percentages utilized as truck trips are anticipated to be local.

Sequestration - 89 new trees to be planted on-site.

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

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

Waste Mitigation -

Fleet Mix - Revised vehicle fleet mix per Trip Gen & VMT Analysis of 60.86% Autos, 10.61% 2-Axle Trucks, 11.36% 3-Axle Trucks and 17.17% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	85.00
tblConstructionPhase	PhaseEndDate	5/30/2023	11/8/2022
tblConstructionPhase	PhaseEndDate	6/27/2023	10/28/2022
tblConstructionPhase	PhaseEndDate	7/25/2023	11/15/2022
tblConstructionPhase	PhaseStartDate	5/31/2023	10/1/2022
tblConstructionPhase	PhaseStartDate	6/28/2023	10/19/2022
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.53	0.35
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.17	0.11
tblFleetMix	LHD1	0.03	0.08
tblFleetMix	LHD2	7.4220e-003	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.09
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.11
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LandUseSquareFeet	82,000.00	255,056.00

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

tblLandUse	LotAcreage	0.37	0.34
tblLandUse	LotAcreage	1.84	5.86
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblSequestration	NumberOfNewTrees	0.00	89.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	1.99	24.44
tblVehicleTrips	SU_TR	5.00	24.44
tblVehicleTrips	WD_TR	4.96	24.44

2.0 Emissions Summary

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	16.2408	30.7948	40.4985	0.0799	7.2503	1.5001	8.1919	3.4692	1.4047	4.3356	0.0000	7,855.451 1	7,855.451 1	1.3997	0.1933	7,948.038 7
Maximum	16.2408	30.7948	40.4985	0.0799	7.2503	1.5001	8.1919	3.4692	1.4047	4.3356	0.0000	7,855.451 1	7,855.451 1	1.3997	0.1933	7,948.038 7

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	16.2408	30.7948	40.4985	0.0799	2.9299	1.5001	3.8716	1.3801	1.4047	2.2465	0.0000	7,855.451 1	7,855.451 1	1.3997	0.1933	7,948.038 7
Maximum	16.2408	30.7948	40.4985	0.0799	2.9299	1.5001	3.8716	1.3801	1.4047	2.2465	0.0000	7,855.451 1	7,855.451 1	1.3997	0.1933	7,948.038 7

	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
Percent Reduction	0.00	0.00	0.00	0.00	59.59	0.00	52.74	60.22	0.00	48.19	0.00	0.00	0.00	0.00	0.00	0.00

19365 Harvill Trailer Storage Yard - Riverside-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	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Energy	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
Mobile	1.2863	10.0011	13.6076	0.0633	3.9170	0.1388	4.0558	1.0703	0.1324	1.2027		6,604.9939	6,604.9939	0.1541	0.6850	6,812.9617
Total	1.7950	10.1420	13.7485	0.0641	3.9170	0.1496	4.0666	1.0703	0.1432	1.2135		6,773.8567	6,773.8567	0.1574	0.6881	6,982.8309

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	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Energy	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
Mobile	1.2863	10.0011	13.6076	0.0633	3.9170	0.1388	4.0558	1.0703	0.1324	1.2027		6,604.9939	6,604.9939	0.1541	0.6850	6,812.9617
Total	1.7950	10.1420	13.7485	0.0641	3.9170	0.1496	4.0666	1.0703	0.1432	1.2135		6,773.8567	6,773.8567	0.1574	0.6881	6,982.8309

19365 Harvill Trailer Storage Yard - Riverside-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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Building Construction	Building Construction	7/13/2022	11/8/2022	5	85	
4	Paving	Paving	10/1/2022	10/28/2022	5	20	
5	Architectural Coating	Architectural Coating	10/19/2022	11/15/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 20

Acres of Paving: 6.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 24,300; Non-Residential Outdoor: 8,100; Striped Parking Area: 18,022 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	5.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	133.00	52.00	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	27.00	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

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5528	0.0000	6.5528	3.3676	0.0000	3.3676			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669		1,128.274 3	1,128.274 3	0.3649		1,137.397 0
Total	1.0018	10.4693	5.8199	0.0116	6.5528	0.5075	7.0603	3.3676	0.4669	3.8345		1,128.274 3	1,128.274 3	0.3649		1,137.397 0

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	1.5800e-003	0.0639	0.0142	2.9000e-004	8.7500e-003	7.4000e-004	9.4900e-003	2.4000e-003	7.1000e-004	3.1100e-003		30.6676	30.6676	4.1000e-004	4.8300e-003	32.1176
Vendor	3.2500e-003	0.0846	0.0294	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.5891	38.5891	4.1000e-004	5.7200e-003	40.3046
Worker	0.0197	0.0128	0.1993	5.1000e-004	0.0559	2.8000e-004	0.0562	0.0148	2.6000e-004	0.0151		51.6770	51.6770	1.2800e-003	1.2700e-003	52.0877
Total	0.0245	0.1612	0.2429	1.1600e-003	0.0775	2.2400e-003	0.0797	0.0209	2.1400e-003	0.0231		120.9336	120.9336	2.1000e-003	0.0118	124.5099

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5556	0.0000	2.5556	1.3134	0.0000	1.3134			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669	0.0000	1,128.274 3	1,128.274 3	0.3649		1,137.397 0
Total	1.0018	10.4693	5.8199	0.0116	2.5556	0.5075	3.0631	1.3134	0.4669	1.7802	0.0000	1,128.274 3	1,128.274 3	0.3649		1,137.397 0

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	1.5800e-003	0.0639	0.0142	2.9000e-004	8.7500e-003	7.4000e-004	9.4900e-003	2.4000e-003	7.1000e-004	3.1100e-003		30.6676	30.6676	4.1000e-004	4.8300e-003	32.1176
Vendor	3.2500e-003	0.0846	0.0294	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.5891	38.5891	4.1000e-004	5.7200e-003	40.3046
Worker	0.0197	0.0128	0.1993	5.1000e-004	0.0559	2.8000e-004	0.0562	0.0148	2.6000e-004	0.0151		51.6770	51.6770	1.2800e-003	1.2700e-003	52.0877
Total	0.0245	0.1612	0.2429	1.1600e-003	0.0775	2.2400e-003	0.0797	0.0209	2.1400e-003	0.0231		120.9336	120.9336	2.1000e-003	0.0118	124.5099

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
Total	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	2.7622	0.9409	3.7031	1.3357	0.8656	2.2012	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
Total	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0846	2.1989	0.7646	9.4700e-003	0.3331	0.0317	0.3648	0.0959	0.0303	0.1262		1,003.3158	1,003.3158	0.0106	0.1488	1,047.9198
Worker	0.5241	0.3397	5.3021	0.0135	1.4866	7.4100e-003	1.4940	0.3943	6.8200e-003	0.4011		1,374.6070	1,374.6070	0.0341	0.0338	1,385.5333
Total	0.6088	2.5385	6.0667	0.0230	1.8197	0.0391	1.8588	0.4902	0.0372	0.5273		2,377.9228	2,377.9228	0.0447	0.1826	2,433.4531

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0846	2.1989	0.7646	9.4700e-003	0.3331	0.0317	0.3648	0.0959	0.0303	0.1262		1,003.3158	1,003.3158	0.0106	0.1488	1,047.9198
Worker	0.5241	0.3397	5.3021	0.0135	1.4866	7.4100e-003	1.4940	0.3943	6.8200e-003	0.4011		1,374.6070	1,374.6070	0.0341	0.0338	1,385.5333
Total	0.6088	2.5385	6.0667	0.0230	1.8197	0.0391	1.8588	0.4902	0.0372	0.5273		2,377.9228	2,377.9228	0.0447	0.1826	2,433.4531

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.7677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8705	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
Total	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.7677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8705	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
Total	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.6853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	11.8898	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.1064	0.0690	1.0764	2.7400e-003	0.3018	1.5000e-003	0.3033	0.0800	1.3800e-003	0.0814		279.0556	279.0556	6.9100e-003	6.8600e-003	281.2737
Total	0.1064	0.0690	1.0764	2.7400e-003	0.3018	1.5000e-003	0.3033	0.0800	1.3800e-003	0.0814		279.0556	279.0556	6.9100e-003	6.8600e-003	281.2737

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.6853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	11.8898	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.1064	0.0690	1.0764	2.7400e-003	0.3018	1.5000e-003	0.3033	0.0800	1.3800e-003	0.0814		279.0556	279.0556	6.9100e-003	6.8600e-003	281.2737
Total	0.1064	0.0690	1.0764	2.7400e-003	0.3018	1.5000e-003	0.3033	0.0800	1.3800e-003	0.0814		279.0556	279.0556	6.9100e-003	6.8600e-003	281.2737

19365 Harvill Trailer Storage Yard - Riverside-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

	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	1.2863	10.0011	13.6076	0.0633	3.9170	0.1388	4.0558	1.0703	0.1324	1.2027		6,604.9939	6,604.9939	0.1541	0.6850	6,812.9617
Unmitigated	1.2863	10.0011	13.6076	0.0633	3.9170	0.1388	4.0558	1.0703	0.1324	1.2027		6,604.9939	6,604.9939	0.1541	0.6850	6,812.9617

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	395.93	395.93	395.93	1,753,279	1,753,279
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	395.93	395.93	395.93	1,753,279	1,753,279

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.348710	0.036635	0.112937	0.094378	0.083430	0.022670	0.113600	0.171700	0.000000	0.000000	0.015940	0.000000	0.000000
Other Non-Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

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	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
NaturalGas Unmitigated	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174

19365 Harvill Trailer Storage Yard - Riverside-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 - Natural Gas

Unmitigated

	Natural Gas 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					
General Light Industry	1434.92	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174

19365 Harvill Trailer Storage Yard - Riverside-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					
General Light Industry	1.43492	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174

6.0 Area Detail

6.1 Mitigation Measures Area

19365 Harvill Trailer Storage Yard - Riverside-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	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Unmitigated	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519

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	0.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Total	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519

19365 Harvill Trailer Storage Yard - Riverside-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	0.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Total	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

19365 Harvill Trailer Storage Yard - Riverside-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

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

**19365 Harvill Trailer Storage Yard
Riverside-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	16.20	1000sqft	0.34	16,200.00	0
Other Non-Asphalt Surfaces	1.04	Acre	1.04	45,302.40	0
Parking Lot	205.00	Space	5.86	255,056.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
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 - 7.24 ac w/ 16.2 TSF (w/ 15 TSF footprint) warehouse/office, 205 parkg spaces (includes 167 trailer stalls & 38 vehicle stalls) with paving covering ~255.056 TSF, & rmndr ~1.04 ac landscaping.

Construction Phase - Construction anticipated to begin June 2022 & be completed by mid-November 2022.

Off-road Equipment - Site prep of ~0.72 ac (~10% of site) to remove existing trees & concrete slabs; therefore, per CalEEMod User's Guide, ~2 pieces of equipment needed for a 1-acre site.

Trips and VMT - ~2 vendor trips added to site prep to account for water truck use.

Grading - Site anticipated to balance. Site prep to remove existing trees & concrete slabs, includes ~40 CY of concrete to be crushed.

Vehicle Trips - Per Trip Gen & VMT Analysis, project to genreate 396 trips. 396 trips/16.2 TSF = 24.44 trips/TSF/day. CalEEMod default distances & percentages utilized as truck trips are anticipated to be local.

Sequestration - 89 new trees to be planted on-site.

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

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

Waste Mitigation -

Fleet Mix - Revised vehicle fleet mix per Trip Gen & VMT Analysis of 60.86% Autos, 10.61% 2-Axle Trucks, 11.36% 3-Axle Trucks and 17.17% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	85.00
tblConstructionPhase	PhaseEndDate	5/30/2023	11/8/2022
tblConstructionPhase	PhaseEndDate	6/27/2023	10/28/2022
tblConstructionPhase	PhaseEndDate	7/25/2023	11/15/2022
tblConstructionPhase	PhaseStartDate	5/31/2023	10/1/2022
tblConstructionPhase	PhaseStartDate	6/28/2023	10/19/2022
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.53	0.35
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.17	0.11
tblFleetMix	LHD1	0.03	0.08
tblFleetMix	LHD2	7.4220e-003	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.09
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.11
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LandUseSquareFeet	82,000.00	255,056.00

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

tblLandUse	LotAcreage	0.37	0.34
tblLandUse	LotAcreage	1.84	5.86
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblSequestration	NumberOfNewTrees	0.00	89.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	1.99	24.44
tblVehicleTrips	SU_TR	5.00	24.44
tblVehicleTrips	WD_TR	4.96	24.44

2.0 Emissions Summary

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	16.1918	30.9295	39.2054	0.0783	7.2503	1.5002	8.1919	3.4692	1.4047	4.3356	0.0000	7,686.156 1	7,686.156 1	1.3992	0.1946	7,779.129 5
Maximum	16.1918	30.9295	39.2054	0.0783	7.2503	1.5002	8.1919	3.4692	1.4047	4.3356	0.0000	7,686.156 1	7,686.156 1	1.3992	0.1946	7,779.129 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	16.1918	30.9295	39.2054	0.0783	2.9299	1.5002	3.8716	1.3801	1.4047	2.2465	0.0000	7,686.156 1	7,686.156 1	1.3992	0.1946	7,779.129 5
Maximum	16.1918	30.9295	39.2054	0.0783	2.9299	1.5002	3.8716	1.3801	1.4047	2.2465	0.0000	7,686.156 1	7,686.156 1	1.3992	0.1946	7,779.129 5

	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
Percent Reduction	0.00	0.00	0.00	0.00	59.59	0.00	52.74	60.22	0.00	48.19	0.00	0.00	0.00	0.00	0.00	0.00

19365 Harvill Trailer Storage Yard - Riverside-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	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Energy	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
Mobile	1.1488	10.5384	12.2321	0.0615	3.9170	0.1390	4.0560	1.0703	0.1326	1.2029		6,420.3329	6,420.3329	0.1550	0.6884	6,629.3594
Total	1.6576	10.6793	12.3730	0.0623	3.9170	0.1498	4.0667	1.0703	0.1434	1.2137		6,589.1958	6,589.1958	0.1583	0.6915	6,799.2286

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	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Energy	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
Mobile	1.1488	10.5384	12.2321	0.0615	3.9170	0.1390	4.0560	1.0703	0.1326	1.2029		6,420.3329	6,420.3329	0.1550	0.6884	6,629.3594
Total	1.6576	10.6793	12.3730	0.0623	3.9170	0.1498	4.0667	1.0703	0.1434	1.2137		6,589.1958	6,589.1958	0.1583	0.6915	6,799.2286

19365 Harvill Trailer Storage Yard - Riverside-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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Building Construction	Building Construction	7/13/2022	11/8/2022	5	85	
4	Paving	Paving	10/1/2022	10/28/2022	5	20	
5	Architectural Coating	Architectural Coating	10/19/2022	11/15/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 20

Acres of Paving: 6.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 24,300; Non-Residential Outdoor: 8,100; Striped Parking Area: 18,022 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	5.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	133.00	52.00	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	27.00	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

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5528	0.0000	6.5528	3.3676	0.0000	3.3676			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669		1,128.274 3	1,128.274 3	0.3649		1,137.397 0
Total	1.0018	10.4693	5.8199	0.0116	6.5528	0.5075	7.0603	3.3676	0.4669	3.8345		1,128.274 3	1,128.274 3	0.3649		1,137.397 0

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	1.5100e-003	0.0674	0.0146	2.9000e-004	8.7500e-003	7.4000e-004	9.4900e-003	2.4000e-003	7.1000e-004	3.1100e-003		30.6910	30.6910	4.1000e-004	4.8300e-003	32.1420
Vendor	3.1200e-003	0.0891	0.0305	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.6312	38.6312	4.0000e-004	5.7300e-003	40.3497
Worker	0.0184	0.0133	0.1615	4.6000e-004	0.0559	2.8000e-004	0.0562	0.0148	2.6000e-004	0.0151		46.8087	46.8087	1.2700e-003	1.3000e-003	47.2282
Total	0.0230	0.1697	0.2067	1.1100e-003	0.0775	2.2400e-003	0.0797	0.0209	2.1400e-003	0.0231		116.1309	116.1309	2.0800e-003	0.0119	119.7200

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5556	0.0000	2.5556	1.3134	0.0000	1.3134			0.0000			0.0000
Off-Road	1.0018	10.4693	5.8199	0.0116		0.5075	0.5075		0.4669	0.4669	0.0000	1,128.274 3	1,128.274 3	0.3649		1,137.397 0
Total	1.0018	10.4693	5.8199	0.0116	2.5556	0.5075	3.0631	1.3134	0.4669	1.7802	0.0000	1,128.274 3	1,128.274 3	0.3649		1,137.397 0

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	1.5100e-003	0.0674	0.0146	2.9000e-004	8.7500e-003	7.4000e-004	9.4900e-003	2.4000e-003	7.1000e-004	3.1100e-003		30.6910	30.6910	4.1000e-004	4.8300e-003	32.1420
Vendor	3.1200e-003	0.0891	0.0305	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.6312	38.6312	4.0000e-004	5.7300e-003	40.3497
Worker	0.0184	0.0133	0.1615	4.6000e-004	0.0559	2.8000e-004	0.0562	0.0148	2.6000e-004	0.0151		46.8087	46.8087	1.2700e-003	1.3000e-003	47.2282
Total	0.0230	0.1697	0.2067	1.1100e-003	0.0775	2.2400e-003	0.0797	0.0209	2.1400e-003	0.0231		116.1309	116.1309	2.0800e-003	0.0119	119.7200

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
Total	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	2.7622	0.9409	3.7031	1.3357	0.8656	2.2012	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
Total	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0810	2.3166	0.7939	9.4800e-003	0.3331	0.0318	0.3649	0.0959	0.0304	0.1263		1,004.4100	1,004.4100	0.0105	0.1491	1,049.0932
Worker	0.4896	0.3526	4.2970	0.0122	1.4866	7.4100e-003	1.4940	0.3943	6.8200e-003	0.4011		1,245.1112	1,245.1112	0.0338	0.0346	1,256.2706
Total	0.5706	2.6691	5.0910	0.0217	1.8197	0.0392	1.8589	0.4902	0.0372	0.5274		2,249.5212	2,249.5212	0.0443	0.1837	2,305.3637

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0810	2.3166	0.7939	9.4800e-003	0.3331	0.0318	0.3649	0.0959	0.0304	0.1263		1,004.4100	1,004.4100	0.0105	0.1491	1,049.0932
Worker	0.4896	0.3526	4.2970	0.0122	1.4866	7.4100e-003	1.4940	0.3943	6.8200e-003	0.4011		1,245.1112	1,245.1112	0.0338	0.0346	1,256.2706
Total	0.5706	2.6691	5.0910	0.0217	1.8197	0.0392	1.8589	0.4902	0.0372	0.5274		2,249.5212	2,249.5212	0.0443	0.1837	2,305.3637

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.7677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8705	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
Total	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.7677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.8705	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
Total	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.6853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	11.8898	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.0994	0.0716	0.8723	2.4800e-003	0.3018	1.5000e-003	0.3033	0.0800	1.3800e-003	0.0814		252.7669	252.7669	6.8600e-003	7.0300e-003	255.0324
Total	0.0994	0.0716	0.8723	2.4800e-003	0.3018	1.5000e-003	0.3033	0.0800	1.3800e-003	0.0814		252.7669	252.7669	6.8600e-003	7.0300e-003	255.0324

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.6853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	11.8898	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.0994	0.0716	0.8723	2.4800e-003	0.3018	1.5000e-003	0.3033	0.0800	1.3800e-003	0.0814		252.7669	252.7669	6.8600e-003	7.0300e-003	255.0324
Total	0.0994	0.0716	0.8723	2.4800e-003	0.3018	1.5000e-003	0.3033	0.0800	1.3800e-003	0.0814		252.7669	252.7669	6.8600e-003	7.0300e-003	255.0324

19365 Harvill Trailer Storage Yard - Riverside-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

	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	1.1488	10.5384	12.2321	0.0615	3.9170	0.1390	4.0560	1.0703	0.1326	1.2029		6,420.3329	6,420.3329	0.1550	0.6884	6,629.3594
Unmitigated	1.1488	10.5384	12.2321	0.0615	3.9170	0.1390	4.0560	1.0703	0.1326	1.2029		6,420.3329	6,420.3329	0.1550	0.6884	6,629.3594

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	395.93	395.93	395.93	1,753,279	1,753,279
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	395.93	395.93	395.93	1,753,279	1,753,279

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.348710	0.036635	0.112937	0.094378	0.083430	0.022670	0.113600	0.171700	0.000000	0.000000	0.015940	0.000000	0.000000
Other Non-Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

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	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
NaturalGas Unmitigated	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174

19365 Harvill Trailer Storage Yard - Riverside-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					
General Light Industry	1434.92	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174

19365 Harvill Trailer Storage Yard - Riverside-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					
General Light Industry	1.43492	0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0155	0.1407	0.1182	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.8142	168.8142	3.2400e-003	3.0900e-003	169.8174

6.0 Area Detail

6.1 Mitigation Measures Area

19365 Harvill Trailer Storage Yard - Riverside-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	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Unmitigated	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519

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	0.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Total	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519

19365 Harvill Trailer Storage Yard - Riverside-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	0.0640					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4272					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1100e-003	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519
Total	0.4933	2.1000e-004	0.0227	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0486	0.0486	1.3000e-004		0.0519

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

19365 Harvill Trailer Storage Yard - Riverside-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

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

APPENDIX C

AERMOD MODEL PRINTOUTS

Emission Assumptions **DPM** Emissions
19365 Harvill Trailer Storage Yard

Facility Operations

Buildout year: **2022**

Emission Factors

1) Onsite Vehicle Emissions

a) Truck

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

(a) Annual Meteorology

Temperature: 66 degF

Relative Humidity: 60%

(b) Calculations for Riv County

(c) Truck Mix

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

4 axle diesel trucks (MHDT)

2 axle diesel trucks (LHDT2)

(d) Onsite Truck Travel Speed: **10** mph

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

(f) Idle speed: 0 mph

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

2) Other Parameters

(a) Width of Truck Source: **8.5** feet

(b) Truck Operational Schedule **24** hours/day

(c) Height of Truck: **13.5** feet

(d) Release Height: **12** feet

19365 Harvill Trailer Storage Yard		Emission:	DPM										
Processes Modeled		Build-out:	2022										
Onsite delivery traffic													
Truck idling													
Offsite delivery traffic													
Facilities in Operation													
Location	Truck type	Daily trucks											
Project Site	HHDT	68											
Project Site	MHDT	45											
Project Site	LHDT2	42											
Total		155											
Delivery Schedule:		24 hrs/day, 52 weeks/year											
Emission Factors 1 Year (2022)													
	Onsite	Offsite	Idle										
Vehicle Class	Exhaust (g/mi)	Exhaust (g/mi)	Idle (g/hr)										
HHDT	0.01835	0.01179	0.01813										
MHDT	0.05583	0.01346	0.10383										
LHDT2	0.06677	0.02624	0.78107										
Onsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)		
Western Project Driveway to Eastern Project Driveway	HHDT	0.01835	68	477.7	0.30	3.70E-01	4.29E-06	2.94E+00	8.16E-04	1.49E-04			
Western Project Driveway to Eastern Project Driveway	MHDT	0.05583	45	477.7	0.30	7.46E-01	8.63E-06	5.91E+00	1.64E-03	3.00E-04	2.25E-05	100% of trucks	
Western Project Driveway to Eastern Project Driveway	LHDT2	0.06677	42	477.7	0.30	8.32E-01	9.63E-06	6.60E+00	1.83E-03	3.35E-04			
Truck Idling													
	Idle time	15 minutes											
Building/Location	Truck Type	Emission Factor (g/Idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)			
At parking areas & maintenance building	HHDT	0.01813	15	68	0.31	3.57E-06	2.83E-05	6.79E-04	1.24E-04				
At parking areas & maintenance building	MHDT	0.10383	15	45	1.17	1.35E-05	1.07E-04	2.57E-03	4.70E-04	1.12E-04			
At parking areas & maintenance building	LHDT2	0.78107	15	42	8.20	9.49E-05	7.53E-04	1.81E-02	3.30E-03	2.80E-05		per idling location (4 total)	
Offsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)			
Orange Ave Western Project Driveway to Harvill Ave	HHDT	0.01179	68	185.9	0.12	9.26E-02	1.07E-06	7.34E-01	2.04E-04	3.72E-05	100% of trucks		
Orange Ave Western Project Driveway to Harvill Ave	MHDT	0.01346	45	185.9	0.12	7.00E-02	8.10E-07	5.55E-01	1.54E-04	2.81E-05	3.36E-06		
Orange Ave Western Project Driveway to Harvill Ave	LHDT2	0.02624	42	185.9	0.12	1.27E-01	1.47E-06	1.01E+00	2.80E-04	5.12E-05			
Harvill Avenue south of Orange Avenue	HHDT	0.01179	68	575.4	0.36	2.87E-01	3.32E-06	2.27E+00	6.31E-04	1.15E-04	50% of trucks		
Harvill Avenue south of Orange Avenue	MHDT	0.01346	45	575.4	0.36	2.17E-01	2.51E-06	1.72E+00	4.77E-04	8.71E-05	5.19E-06		
Harvill Avenue south of Orange Avenue	LHDT2	0.02624	42	575.4	0.36	3.94E-01	4.66E-06	3.12E+00	8.68E-04	1.58E-04			
Harvill Avenue north of Orange Avenue	HHDT	0.01179	68	859	0.53	4.28E-01	4.95E-06	3.39E+00	9.43E-04	1.72E-04	50% of trucks		
Harvill Avenue north of Orange Avenue	MHDT	0.01346	45	859	0.53	3.23E-01	3.74E-06	2.56E+00	7.12E-04	1.30E-04	7.75E-06		
Harvill Avenue north of Orange Avenue	LHDT2	0.02624	42	859	0.53	5.88E-01	6.81E-06	4.66E+00	1.30E-03	2.36E-04			

19365 Harvill Trailer Storage Yard		Emission:	DPM											
Processes Modeled		Build-out:	2022											
Onsite delivery traffic														
Truck idling														
Offsite delivery traffic														
Facilities in Operation														
Location	Truck type	Daily trucks												
Project Site	HHDТ	68												
Project Site	MHDT	45												
Project Site	LHDT2	42												
Total		155												
Delivery Schedule:		24 hrs/day, 52weeks/year												
Emission Factors 2 Year (2023&2024)														
	Onsite Exhaust	Offsite Exhaust	Idle											
Vehicle Class	(g/mi)	(g/mi)	(g/hr)											
HHDТ	0.01237	0.00841	0.01584											
MHDT	0.04177	0.00967	0.07974											
LHDT2	0.05698	0.02283	0.77826											
Onsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)			
Western Project Driveway to Eastern Project Driveway	HHDТ	0.01237	68	477.7	0.30	2.50E-01	2.89E-06	1.98E+00	5.50E-04	1.00E-04				
Western Project Driveway to Eastern Project Driveway	MHDT	0.04177	45	477.7	0.30	5.58E-01	6.46E-06	4.42E+00	1.23E-03	2.24E-04	1.76E-05	100% of trucks		
Western Project Driveway to Eastern Project Driveway	LHDT2	0.05698	42	477.7	0.30	7.10E-01	8.22E-06	5.63E+00	1.56E-03	2.85E-04				
Truck Idling														
	Idle time	15 minutes												
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)				
At parking areas & maintenance building	HHDТ	0.01584	15	68	0.27	3.12E-06	2.47E-05	5.93E-04	1.08E-04					
At parking areas & maintenance building	MHDT	0.07974	15	45	0.90	1.04E-05	8.23E-05	1.98E-03	3.61E-04	1.08E-04				
At parking areas & maintenance building	LHDT2	0.77826	15	42	8.17	9.46E-05	7.50E-04	1.80E-02	3.28E-03	2.70E-05	per idling location (4 total)			
Offsite Roadway Links Modeled														
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)				
Orange Ave Western Project Driveway to Harvill Ave	HHDТ	0.00841	68	185.9	0.12	6.61E-02	7.65E-07	5.24E-01	1.46E-04	2.66E-05	100% of trucks			
Orange Ave Western Project Driveway to Harvill Ave	MHDT	0.00967	45	185.9	0.12	5.02E-02	5.82E-07	3.98E-01	1.11E-04	2.02E-05	2.63E-06			
Orange Ave Western Project Driveway to Harvill Ave	LHDT2	0.02283	42	185.9	0.12	1.11E-01	1.28E-06	8.78E-01	2.44E-04	4.45E-05				
Harvill Avenue south of Orange Avenue	HHDТ	0.00841	68	575.4	0.36	2.04E-01	2.37E-06	1.62E+00	4.50E-04	8.22E-05	50% of trucks			
Harvill Avenue south of Orange Avenue	MHDT	0.00967	45	575.4	0.36	1.56E-01	1.80E-06	1.23E+00	3.43E-04	6.25E-05	4.07E-06			
Harvill Avenue south of Orange Avenue	LHDT2	0.02283	42	575.4	0.36	3.43E-01	3.97E-06	2.72E+00	7.55E-04	1.38E-04				
Harvill Avenue north of Orange Avenue	HHDТ	0.00841	68	859	0.53	3.05E-01	3.53E-06	2.42E+00	6.72E-04	1.23E-04	50% of trucks			
Harvill Avenue north of Orange Avenue	MHDT	0.00967	45	859	0.53	2.32E-01	2.69E-06	1.84E+00	5.11E-04	9.33E-05	6.07E-06			
Harvill Avenue north of Orange Avenue	LHDT2	0.02283	42	859	0.53	5.12E-01	5.92E-06	4.06E+00	1.13E-03	2.06E-04				

19365 Harvill Trailer Storage Yard		Emission:	DPM										
Processes Modeled		Build-out:	2022										
Onsite delivery traffic													
Truck idling													
Offsite delivery traffic													
Facilities in Operation													
Location	Truck type	Daily trucks											
Project Site	HHDT	68											
Project Site	MHDT	45											
Project Site	LHDT2	42											
Total		155											
Delivery Schedule:													
		24 hrs/day, 52 weeks/year											
Emission Factors 14 Year 2025-2038		Onsite	Offsite										
	Exhaust	Exhaust	Idle										
Vehicle Class	(g/mi)	(g/mi)	(g/hr)										
HHDT	0.00993	0.00674	0.01168										
MHDT	0.01351	0.00381	0.02514										
LHDT2	0.04042	0.01760	0.77023										
Onsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)		
Western Project Driveway to Eastern Project Driveway	HHDT	0.00993	68	477.7	0.30	2.00E-01	2.32E-06	1.59E+00	4.41E-04	8.05E-05			
Western Project Driveway to Eastern Project Driveway	MHDT	0.01351	45	477.7	0.30	1.80E-01	2.09E-06	1.43E+00	3.97E-04	7.25E-05	1.02E-05	100% of trucks	
Western Project Driveway to Eastern Project Driveway	LHDT2	0.04042	42	477.7	0.30	5.04E-01	5.83E-06	3.99E+00	1.11E-03	2.02E-04			
Truck Idling		Idle time	15 minutes										
Building/Location	Truck Type	Emission Factor (g/Idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)			
At parking areas & maintenance building	HHDT	0.01168	15	68	0.20	2.30E-06	1.82E-05	4.37E-04	7.98E-05				
At parking areas & maintenance building	MHDT	0.02514	15	45	0.28	3.27E-06	2.60E-05	6.23E-04	1.14E-04	9.92E-05			
At parking areas & maintenance building	LHDT2	0.77023	15	42	8.09	9.36E-05	7.42E-04	1.78E-02	3.25E-03	2.48E-05	per idling location (4 total)		
Offsite Roadway Links Modeled													
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)			
Orange Ave Western Project Driveway to Harvill Ave	HHDT	0.00674	68	185.9	0.12	5.29E-02	6.12E-07	4.19E-01	1.17E-04	2.13E-05	100% of trucks		
Orange Ave Western Project Driveway to Harvill Ave	MHDT	0.00381	45	185.9	0.12	1.98E-02	2.29E-07	1.57E-01	4.36E-05	7.96E-06	1.83E-06		
Orange Ave Western Project Driveway to Harvill Ave	LHDT2	0.01760	42	185.9	0.12	8.54E-02	9.88E-07	6.77E-01	1.88E-04	3.43E-05			
Harvill Avenue south of Orange Avenue	HHDT	0.00674	68	575.4	0.36	1.64E-01	1.89E-06	1.30E+00	3.61E-04	6.58E-05	50% of trucks		
Harvill Avenue south of Orange Avenue	MHDT	0.00381	45	575.4	0.36	6.13E-02	7.10E-07	4.86E-01	1.35E-04	2.46E-05	2.83E-06		
Harvill Avenue south of Orange Avenue	LHDT2	0.01760	42	575.4	0.36	2.64E-01	3.06E-06	2.10E+00	5.82E-04	1.06E-04			
Harvill Avenue north of Orange Avenue	HHDT	0.00674	68	859	0.53	2.44E-01	2.83E-06	1.94E+00	5.38E-04	9.82E-05	50% of trucks		
Harvill Avenue north of Orange Avenue	MHDT	0.00381	45	859	0.53	9.15E-02	1.06E-06	7.26E-01	2.02E-04	3.68E-05	4.23E-06		
Harvill Avenue north of Orange Avenue	LHDT2	0.01760	42	859	0.53	3.95E-01	4.57E-06	3.13E+00	8.69E-04	1.59E-04			

19365 Harvill Trailer Storage Yard			Emission:	DPM																	
Processes Modeled			Build-out:	2022																	
Onsite delivery traffic																					
Truck idling																					
Offsite delivery traffic																					
Facilities in Operation																					
Location	Truck type	Daily trucks																			
Project Site	HHDT	68																			
Project Site	MHDT	45																			
Project Site	LHDT2	42																			
Total		155																			
Delivery Schedule:																					
		24 hrs/day, 52weeks/year																			
Emission Factors 14 Year 2039-2052																					
	Onsite Exhaust	Offsite Exhaust	Idle																		
Vehicle Class	(g/mi)	(g/mi)	(g/hr)																		
HHDT	0.00823	0.00566	0.00978																		
MHDT	0.00339	0.00157	0.00760																		
LHDT2	0.03575	0.01666	0.76138																		
Onsite Roadway Links Modeled																					
Link	Truck Type	Emission Factor (g/mi)	Trips per day (in and out)	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)	Total Daily Emissions for all Vehicles (g/sec)										
Western Project Driveway to Eastern Project Driveway	HHDT	0.00823	68	477.7	0.30	1.66E-01	1.92E-06	1.32E+00	3.66E-04	6.68E-05											
Western Project Driveway to Eastern Project Driveway	MHDT	0.00339	45	477.7	0.30	4.53E-02	5.24E-07	3.59E-01	9.97E-05	1.82E-05	7.60E-06	100% of trucks									
Western Project Driveway to Eastern Project Driveway	LHDT2	0.03575	42	477.7	0.30	4.46E-01	5.16E-06	3.53E+00	9.81E-04	1.79E-04											
Truck Idling																					
	Idle time		15 minutes																		
Building/Location	Truck Type	Emission Factor (g/idle-hour)	Idling Time (min)	Daily Trucks	Total Emissions (g/day)	Max Hourly Emissions (g/sec)	Max Hourly Emissions (lb/hr)	Total Daily Emissions (lbs/day)	Total Emissions (tons/yr)	Total Emissions (tons/yr)											
At parking areas & maintenance building	HHDT	0.00978	15	68	0.17	1.92E-06	1.53E-05	3.66E-04	6.68E-05												
At parking areas & maintenance building	MHDT	0.00760	15	45	0.09	9.89E-07	7.84E-06	1.88E-04	3.43E-05		9.54E-05										
At parking areas & maintenance building	LHDT2	0.76138	15	42	7.99	9.25E-05	7.34E-04	1.76E-02	3.21E-03		2.39E-05	per idling location (4 total)									
Offsite Roadway Links Modeled																					
Link	Truck Type	Emission Factor (g/mi)	Trips per day	Length (m)	Length (mi)	Daily Emissions Over the Link (g/day)	Emissions Over the Link (g/sec)	Max Hourly Emissions Over Link (lb/hr)	Daily Emissions (lbs/day)	Annual Avg Emissions Over Link (tons/yr)											
Orange Ave Western Project Driveway to Harvill Ave	HHDT	0.00566	68	185.9	0.12	4.45E-02	5.15E-07	3.53E-01	9.80E-05	1.79E-05	100% of trucks										
Orange Ave Western Project Driveway to Harvill Ave	MHDT	0.00157	45	185.9	0.12	8.17E-03	9.45E-08	6.47E-02	1.80E-05	3.28E-06	1.54E-06										
Orange Ave Western Project Driveway to Harvill Ave	LHDT2	0.01666	42	185.9	0.12	8.08E-02	9.35E-07	6.41E-01	1.78E-04	3.25E-05											
Harvill Avenue south of Orange Avenue	HHDT	0.00566	68	575.4	0.36	1.38E-01	1.59E-06	1.09E+00	3.03E-04	5.53E-05	50% of trucks										
Harvill Avenue south of Orange Avenue	MHDT	0.00157	45	575.4	0.36	2.53E-02	2.93E-07	2.00E-01	5.57E-05	1.02E-05	9.56E-08										
Harvill Avenue south of Orange Avenue	LHDT2	0.01666	42	575.4	0.36	2.50E-01	2.90E-06	1.98E+00	5.51E-04	1.01E-04											
Harvill Avenue north of Orange Avenue	HHDT	0.00566	68	859	0.53	2.06E-01	2.38E-06	1.63E+00	4.53E-04	8.26E-05	50% of trucks										
Harvill Avenue north of Orange Avenue	MHDT	0.00157	45	859	0.53	3.77E-02	4.37E-07	2.99E-01	8.31E-05	1.52E-05	3.57E-06										
Harvill Avenue north of Orange Avenue	LHDT2	0.01666	42	859	0.53	3.73E-01	4.32E-06	2.96E+00	8.23E-04	1.50E-04											

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** Lakes Environmental AERMOD MPI
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*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 1/19/2022
** File: C:\Lakes\19365 Harvill Trailer Storage Yard OY rev\19365 Harvill Trailer Storage Yard OY rev.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Harvill revised with new site plan
TITLETWO DPM Concentrations for Harvill Trailer Storage Yard - 1st Year
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 2189641 Riverside_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19365 Harvill Trailer Storage Yard OY rev.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 Onsite truck travel
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0000225
** Elevated
** Building Height = 8.15
** SZINIT = 3.79
** Nodes = 21
** 477330.574, 3741786.592, 463.59, 3.66, 4.00
** 477329.931, 3741871.510, 463.44, 3.66, 4.00

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** 477325.856, 3741876.871, 463.31, 3.66, 4.00
 ** 477274.820, 3741876.442, 465.55, 3.66, 4.00
 ** 477267.958, 3741880.516, 465.54, 3.66, 4.00
 ** 477267.958, 3741938.200, 465.52, 3.66, 4.00
 ** 477271.175, 3741942.275, 465.40, 3.66, 4.00
 ** 477278.037, 3741943.776, 464.94, 3.66, 4.00
 ** 477285.756, 3741943.132, 464.77, 3.66, 4.00
 ** 477293.047, 3741940.130, 464.69, 3.66, 4.00
 ** 477406.485, 3741853.497, 461.57, 3.66, 4.00
 ** 477409.916, 3741852.425, 461.54, 3.66, 4.00
 ** 477437.579, 3741851.353, 460.94, 3.66, 4.00
 ** 477440.581, 3741850.066, 460.92, 3.66, 4.00
 ** 477442.296, 3741847.064, 460.94, 3.66, 4.00
 ** 477443.583, 3741837.629, 460.93, 3.66, 4.00
 ** 477443.154, 3741827.336, 460.98, 3.66, 4.00
 ** 477443.154, 3741809.966, 461.14, 3.66, 4.00
 ** 477442.082, 3741801.818, 461.14, 3.66, 4.00
 ** 477439.938, 3741795.813, 461.12, 3.66, 4.00
 ** 477439.938, 3741786.807, 461.10, 3.66, 4.00

** -----

LOCATION L0003339	VOLUME	477330.541	3741790.888	463.78
LOCATION L0003340	VOLUME	477330.476	3741799.478	463.86
LOCATION L0003341	VOLUME	477330.411	3741808.069	463.94
LOCATION L0003342	VOLUME	477330.346	3741816.659	463.93
LOCATION L0003343	VOLUME	477330.281	3741825.250	463.90
LOCATION L0003344	VOLUME	477330.216	3741833.840	463.87
LOCATION L0003345	VOLUME	477330.151	3741842.431	463.83
LOCATION L0003346	VOLUME	477330.086	3741851.022	463.76
LOCATION L0003347	VOLUME	477330.021	3741859.612	463.68
LOCATION L0003348	VOLUME	477329.956	3741868.203	463.60
LOCATION L0003349	VOLUME	477326.734	3741875.716	463.66
LOCATION L0003350	VOLUME	477318.716	3741876.811	463.91
LOCATION L0003351	VOLUME	477310.125	3741876.739	464.17
LOCATION L0003352	VOLUME	477301.535	3741876.667	464.41
LOCATION L0003353	VOLUME	477292.944	3741876.594	464.65
LOCATION L0003354	VOLUME	477284.354	3741876.522	464.89
LOCATION L0003355	VOLUME	477275.763	3741876.450	465.13
LOCATION L0003356	VOLUME	477268.244	3741880.346	465.33
LOCATION L0003357	VOLUME	477267.958	3741888.774	465.28
LOCATION L0003358	VOLUME	477267.958	3741897.365	465.23
LOCATION L0003359	VOLUME	477267.958	3741905.956	465.23
LOCATION L0003360	VOLUME	477267.958	3741914.547	465.28
LOCATION L0003361	VOLUME	477267.958	3741923.137	465.34
LOCATION L0003362	VOLUME	477267.958	3741931.728	465.39
LOCATION L0003363	VOLUME	477269.271	3741939.863	465.35
LOCATION L0003364	VOLUME	477276.565	3741943.454	465.13
LOCATION L0003365	VOLUME	477285.097	3741943.187	464.87
LOCATION L0003366	VOLUME	477293.083	3741940.103	464.62
LOCATION L0003367	VOLUME	477299.910	3741934.889	464.40
LOCATION L0003368	VOLUME	477306.737	3741929.675	464.18
LOCATION L0003369	VOLUME	477313.565	3741924.461	463.97

LOCATION	L0003370	VOLUME	477320.392	3741919.247	463.80
LOCATION	L0003371	VOLUME	477327.220	3741914.033	463.62
LOCATION	L0003372	VOLUME	477334.047	3741908.818	463.42
LOCATION	L0003373	VOLUME	477340.875	3741903.604	463.21
LOCATION	L0003374	VOLUME	477347.702	3741898.390	463.03
LOCATION	L0003375	VOLUME	477354.530	3741893.176	462.85
LOCATION	L0003376	VOLUME	477361.357	3741887.962	462.67
LOCATION	L0003377	VOLUME	477368.185	3741882.748	462.51
LOCATION	L0003378	VOLUME	477375.012	3741877.533	462.36
LOCATION	L0003379	VOLUME	477381.840	3741872.319	462.20
LOCATION	L0003380	VOLUME	477388.667	3741867.105	462.06
LOCATION	L0003381	VOLUME	477395.494	3741861.891	461.94
LOCATION	L0003382	VOLUME	477402.322	3741856.677	461.82
LOCATION	L0003383	VOLUME	477409.685	3741852.497	461.66
LOCATION	L0003384	VOLUME	477418.258	3741852.102	461.46
LOCATION	L0003385	VOLUME	477426.843	3741851.769	461.27
LOCATION	L0003386	VOLUME	477435.427	3741851.436	461.07
LOCATION	L0003387	VOLUME	477442.154	3741847.313	460.92
LOCATION	L0003388	VOLUME	477443.418	3741838.836	460.90
LOCATION	L0003389	VOLUME	477443.276	3741830.263	460.97
LOCATION	L0003390	VOLUME	477443.154	3741821.674	461.03
LOCATION	L0003391	VOLUME	477443.154	3741813.083	461.08
LOCATION	L0003392	VOLUME	477442.440	3741804.539	461.12
LOCATION	L0003393	VOLUME	477440.116	3741796.313	461.16
LOCATION	L0003394	VOLUME	477439.938	3741787.753	461.14

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Offsite - Orange Avenue to Harvill Ave

** PREFIX

** Length of Side = 14.50

** Configuration = Adjacent

** Emission Rate = 3.36E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 2

** 477329.923, 3741778.717, 463.57, 3.66, 6.74

** 477515.846, 3741778.073, 459.43, 3.66, 6.74

** -----

LOCATION	L0003395	VOLUME	477337.173	3741778.692	463.49
LOCATION	L0003396	VOLUME	477351.673	3741778.641	463.13
LOCATION	L0003397	VOLUME	477366.173	3741778.591	462.79
LOCATION	L0003398	VOLUME	477380.673	3741778.541	462.48
LOCATION	L0003399	VOLUME	477395.173	3741778.491	462.17
LOCATION	L0003400	VOLUME	477409.672	3741778.441	461.84
LOCATION	L0003401	VOLUME	477424.172	3741778.391	461.50
LOCATION	L0003402	VOLUME	477438.672	3741778.340	461.15
LOCATION	L0003403	VOLUME	477453.172	3741778.290	460.83
LOCATION	L0003404	VOLUME	477467.672	3741778.240	460.51

LOCATION	L0003405	VOLUME	477482.172	3741778.190	460.30
LOCATION	L0003406	VOLUME	477496.672	3741778.140	460.05
LOCATION	L0003407	VOLUME	477511.172	3741778.090	459.65

** End of LINE VOLUME Source ID = SLINE2

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Off-site - Harvill Ave south of Orange Ave

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 5.19E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 6

** 477516.848, 3741771.107, 459.44, 3.66, 4.00

** 477519.765, 3741749.232, 459.67, 3.66, 4.00

** 477519.218, 3741712.774, 459.81, 3.66, 4.00

** 477520.592, 3741591.131, 461.14, 3.66, 4.00

** 477518.826, 3741215.954, 463.62, 3.66, 4.00

** 477520.592, 3741196.022, 463.90, 3.66, 4.00

** -----

LOCATION	L0003408	VOLUME	477517.416	3741766.849	459.55
LOCATION	L0003409	VOLUME	477518.552	3741758.334	459.59
LOCATION	L0003410	VOLUME	477519.687	3741749.818	459.63
LOCATION	L0003411	VOLUME	477519.645	3741741.234	459.67
LOCATION	L0003412	VOLUME	477519.516	3741732.644	459.71
LOCATION	L0003413	VOLUME	477519.387	3741724.054	459.76
LOCATION	L0003414	VOLUME	477519.259	3741715.464	459.80
LOCATION	L0003415	VOLUME	477519.285	3741706.874	459.89
LOCATION	L0003416	VOLUME	477519.382	3741698.284	459.97
LOCATION	L0003417	VOLUME	477519.479	3741689.694	460.05
LOCATION	L0003418	VOLUME	477519.576	3741681.103	460.14
LOCATION	L0003419	VOLUME	477519.673	3741672.513	460.24
LOCATION	L0003420	VOLUME	477519.770	3741663.923	460.34
LOCATION	L0003421	VOLUME	477519.867	3741655.333	460.44
LOCATION	L0003422	VOLUME	477519.964	3741646.742	460.54
LOCATION	L0003423	VOLUME	477520.061	3741638.152	460.63
LOCATION	L0003424	VOLUME	477520.158	3741629.562	460.72
LOCATION	L0003425	VOLUME	477520.255	3741620.972	460.81
LOCATION	L0003426	VOLUME	477520.352	3741612.381	460.89
LOCATION	L0003427	VOLUME	477520.449	3741603.791	460.97
LOCATION	L0003428	VOLUME	477520.546	3741595.201	461.05
LOCATION	L0003429	VOLUME	477520.571	3741586.610	461.13
LOCATION	L0003430	VOLUME	477520.530	3741578.020	461.21
LOCATION	L0003431	VOLUME	477520.490	3741569.429	461.28
LOCATION	L0003432	VOLUME	477520.450	3741560.838	461.36
LOCATION	L0003433	VOLUME	477520.409	3741552.247	461.44
LOCATION	L0003434	VOLUME	477520.369	3741543.657	461.52
LOCATION	L0003435	VOLUME	477520.328	3741535.066	461.60

LOCATION	L0003436	VOLUME	477520.288	3741526.475	461.67
LOCATION	L0003437	VOLUME	477520.247	3741517.885	461.75
LOCATION	L0003438	VOLUME	477520.207	3741509.294	461.83
LOCATION	L0003439	VOLUME	477520.166	3741500.703	461.90
LOCATION	L0003440	VOLUME	477520.126	3741492.113	461.97
LOCATION	L0003441	VOLUME	477520.086	3741483.522	462.05
LOCATION	L0003442	VOLUME	477520.045	3741474.931	462.12
LOCATION	L0003443	VOLUME	477520.005	3741466.340	462.19
LOCATION	L0003444	VOLUME	477519.964	3741457.750	462.26
LOCATION	L0003445	VOLUME	477519.924	3741449.159	462.34
LOCATION	L0003446	VOLUME	477519.883	3741440.568	462.41
LOCATION	L0003447	VOLUME	477519.843	3741431.978	462.50
LOCATION	L0003448	VOLUME	477519.803	3741423.387	462.60
LOCATION	L0003449	VOLUME	477519.762	3741414.796	462.70
LOCATION	L0003450	VOLUME	477519.722	3741406.205	462.80
LOCATION	L0003451	VOLUME	477519.681	3741397.615	462.89
LOCATION	L0003452	VOLUME	477519.641	3741389.024	462.99
LOCATION	L0003453	VOLUME	477519.600	3741380.433	463.08
LOCATION	L0003454	VOLUME	477519.560	3741371.843	463.15
LOCATION	L0003455	VOLUME	477519.519	3741363.252	463.21
LOCATION	L0003456	VOLUME	477519.479	3741354.661	463.26
LOCATION	L0003457	VOLUME	477519.439	3741346.071	463.32
LOCATION	L0003458	VOLUME	477519.398	3741337.480	463.40
LOCATION	L0003459	VOLUME	477519.358	3741328.889	463.48
LOCATION	L0003460	VOLUME	477519.317	3741320.298	463.56
LOCATION	L0003461	VOLUME	477519.277	3741311.708	463.65
LOCATION	L0003462	VOLUME	477519.236	3741303.117	463.75
LOCATION	L0003463	VOLUME	477519.196	3741294.526	463.85
LOCATION	L0003464	VOLUME	477519.155	3741285.936	463.95
LOCATION	L0003465	VOLUME	477519.115	3741277.345	463.95
LOCATION	L0003466	VOLUME	477519.075	3741268.754	463.95
LOCATION	L0003467	VOLUME	477519.034	3741260.163	463.95
LOCATION	L0003468	VOLUME	477518.994	3741251.573	463.92
LOCATION	L0003469	VOLUME	477518.953	3741242.982	463.81
LOCATION	L0003470	VOLUME	477518.913	3741234.391	463.71
LOCATION	L0003471	VOLUME	477518.872	3741225.801	463.61
LOCATION	L0003472	VOLUME	477518.832	3741217.210	463.63
LOCATION	L0003473	VOLUME	477519.473	3741208.648	463.59
LOCATION	L0003474	VOLUME	477520.232	3741200.091	463.53

** End of LINE VOLUME Source ID = SLINE3

**

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE4

** DESCRSRC Off-site - Harvill Avenue north of Orange Avenue

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 7.75E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

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** Nodes = 22
** 477254.938, 3742548.264, 459.13, 3.66, 4.00
** 477256.170, 3742178.029, 463.37, 3.66, 4.00
** 477258.225, 3742141.868, 463.98, 3.66, 4.00
** 477260.690, 3742125.432, 464.16, 3.66, 4.00
** 477264.800, 3742109.817, 464.26, 3.66, 4.00
** 477275.483, 3742074.067, 464.82, 3.66, 4.00
** 477290.276, 3742045.303, 464.61, 3.66, 4.00
** 477309.178, 3742014.485, 464.12, 3.66, 4.00
** 477333.011, 3741987.364, 463.67, 3.66, 4.00
** 477343.284, 3741977.913, 463.57, 3.66, 4.00
** 477350.270, 3741971.749, 463.23, 3.66, 4.00
** 477368.761, 3741957.367, 462.88, 3.66, 4.00
** 477394.649, 3741939.698, 462.23, 3.66, 4.00
** 477415.195, 3741925.727, 461.55, 3.66, 4.00
** 477435.740, 3741909.701, 460.87, 3.66, 4.00
** 477448.890, 3741898.606, 460.79, 3.66, 4.00
** 477461.628, 3741884.224, 460.22, 3.66, 4.00
** 477472.312, 3741871.897, 460.19, 3.66, 4.00
** 477480.530, 3741859.980, 459.74, 3.66, 4.00
** 477487.927, 3741846.831, 459.63, 3.66, 4.00
** 477501.487, 3741821.354, 459.45, 3.66, 4.00
** 477514.888, 3741786.059, 459.40, 3.66, 4.00

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LOCATION L0003475    VOLUME  477254.952 3742543.969 459.25
LOCATION L0003476    VOLUME  477254.980 3742535.378 459.31
LOCATION L0003477    VOLUME  477255.009 3742526.787 459.37
LOCATION L0003478    VOLUME  477255.038 3742518.196 459.43
LOCATION L0003479    VOLUME  477255.066 3742509.606 459.52
LOCATION L0003480    VOLUME  477255.095 3742501.015 459.61
LOCATION L0003481    VOLUME  477255.123 3742492.424 459.70
LOCATION L0003482    VOLUME  477255.152 3742483.833 459.80
LOCATION L0003483    VOLUME  477255.181 3742475.243 459.89
LOCATION L0003484    VOLUME  477255.209 3742466.652 459.99
LOCATION L0003485    VOLUME  477255.238 3742458.061 460.08
LOCATION L0003486    VOLUME  477255.266 3742449.470 460.17
LOCATION L0003487    VOLUME  477255.295 3742440.880 460.26
LOCATION L0003488    VOLUME  477255.324 3742432.289 460.34
LOCATION L0003489    VOLUME  477255.352 3742423.698 460.42
LOCATION L0003490    VOLUME  477255.381 3742415.107 460.50
LOCATION L0003491    VOLUME  477255.409 3742406.517 460.57
LOCATION L0003492    VOLUME  477255.438 3742397.926 460.64
LOCATION L0003493    VOLUME  477255.467 3742389.335 460.72
LOCATION L0003494    VOLUME  477255.495 3742380.744 460.80
LOCATION L0003495    VOLUME  477255.524 3742372.154 460.89
LOCATION L0003496    VOLUME  477255.553 3742363.563 460.97
LOCATION L0003497    VOLUME  477255.581 3742354.972 461.07
LOCATION L0003498    VOLUME  477255.610 3742346.381 461.17
LOCATION L0003499    VOLUME  477255.638 3742337.791 461.27
LOCATION L0003500    VOLUME  477255.667 3742329.200 461.36
LOCATION L0003501    VOLUME  477255.696 3742320.609 461.45

```

LOCATION	L0003502	VOLUME	477255.724	3742312.018	461.53
LOCATION	L0003503	VOLUME	477255.753	3742303.428	461.61
LOCATION	L0003504	VOLUME	477255.781	3742294.837	461.69
LOCATION	L0003505	VOLUME	477255.810	3742286.246	461.77
LOCATION	L0003506	VOLUME	477255.839	3742277.655	461.85
LOCATION	L0003507	VOLUME	477255.867	3742269.065	461.93
LOCATION	L0003508	VOLUME	477255.896	3742260.474	462.04
LOCATION	L0003509	VOLUME	477255.924	3742251.883	462.15
LOCATION	L0003510	VOLUME	477255.953	3742243.292	462.26
LOCATION	L0003511	VOLUME	477255.982	3742234.702	462.39
LOCATION	L0003512	VOLUME	477256.010	3742226.111	462.54
LOCATION	L0003513	VOLUME	477256.039	3742217.520	462.69
LOCATION	L0003514	VOLUME	477256.067	3742208.929	462.84
LOCATION	L0003515	VOLUME	477256.096	3742200.339	463.04
LOCATION	L0003516	VOLUME	477256.125	3742191.748	463.25
LOCATION	L0003517	VOLUME	477256.153	3742183.157	463.45
LOCATION	L0003518	VOLUME	477256.367	3742174.572	463.62
LOCATION	L0003519	VOLUME	477256.854	3742165.995	463.77
LOCATION	L0003520	VOLUME	477257.341	3742157.418	463.91
LOCATION	L0003521	VOLUME	477257.829	3742148.841	464.05
LOCATION	L0003522	VOLUME	477258.463	3742140.279	464.13
LOCATION	L0003523	VOLUME	477259.738	3742131.783	464.18
LOCATION	L0003524	VOLUME	477261.242	3742123.335	464.21
LOCATION	L0003525	VOLUME	477263.428	3742115.027	464.24
LOCATION	L0003526	VOLUME	477265.717	3742106.748	464.35
LOCATION	L0003527	VOLUME	477268.177	3742098.517	464.44
LOCATION	L0003528	VOLUME	477270.636	3742090.286	464.53
LOCATION	L0003529	VOLUME	477273.096	3742082.055	464.59
LOCATION	L0003530	VOLUME	477275.600	3742073.841	464.63
LOCATION	L0003531	VOLUME	477279.529	3742066.201	464.62
LOCATION	L0003532	VOLUME	477283.458	3742058.562	464.62
LOCATION	L0003533	VOLUME	477287.387	3742050.922	464.59
LOCATION	L0003534	VOLUME	477291.464	3742043.366	464.57
LOCATION	L0003535	VOLUME	477295.956	3742036.043	464.53
LOCATION	L0003536	VOLUME	477300.448	3742028.720	464.48
LOCATION	L0003537	VOLUME	477304.939	3742021.397	464.40
LOCATION	L0003538	VOLUME	477309.497	3742014.122	464.29
LOCATION	L0003539	VOLUME	477315.168	3742007.669	464.17
LOCATION	L0003540	VOLUME	477320.839	3742001.216	464.07
LOCATION	L0003541	VOLUME	477326.510	3741994.763	463.95
LOCATION	L0003542	VOLUME	477332.180	3741988.310	463.79
LOCATION	L0003543	VOLUME	477338.407	3741982.400	463.62
LOCATION	L0003544	VOLUME	477344.757	3741976.614	463.45
LOCATION	L0003545	VOLUME	477351.247	3741970.989	463.28
LOCATION	L0003546	VOLUME	477358.029	3741965.715	463.09
LOCATION	L0003547	VOLUME	477364.810	3741960.441	462.90
LOCATION	L0003548	VOLUME	477371.722	3741955.346	462.74
LOCATION	L0003549	VOLUME	477378.818	3741950.503	462.57
LOCATION	L0003550	VOLUME	477385.913	3741945.660	462.40
LOCATION	L0003551	VOLUME	477393.009	3741940.817	462.22
LOCATION	L0003552	VOLUME	477400.111	3741935.984	462.01

LOCATION	L0003553	VOLUME	477407.215	3741931.153	461.80
LOCATION	L0003554	VOLUME	477414.319	3741926.322	461.61
LOCATION	L0003555	VOLUME	477421.133	3741921.095	461.42
LOCATION	L0003556	VOLUME	477427.907	3741915.811	461.21
LOCATION	L0003557	VOLUME	477434.681	3741910.527	461.01
LOCATION	L0003558	VOLUME	477441.279	3741905.028	460.80
LOCATION	L0003559	VOLUME	477447.845	3741899.488	460.65
LOCATION	L0003560	VOLUME	477453.680	3741893.198	460.53
LOCATION	L0003561	VOLUME	477459.376	3741886.767	460.40
LOCATION	L0003562	VOLUME	477465.030	3741880.300	460.26
LOCATION	L0003563	VOLUME	477470.656	3741873.808	460.12
LOCATION	L0003564	VOLUME	477475.754	3741866.906	460.00
LOCATION	L0003565	VOLUME	477480.617	3741859.826	459.90
LOCATION	L0003566	VOLUME	477484.829	3741852.338	459.80
LOCATION	L0003567	VOLUME	477488.994	3741844.825	459.68
LOCATION	L0003568	VOLUME	477493.031	3741837.242	459.59
LOCATION	L0003569	VOLUME	477497.067	3741829.658	459.54
LOCATION	L0003570	VOLUME	477501.103	3741822.075	459.46
LOCATION	L0003571	VOLUME	477504.247	3741814.086	459.39
LOCATION	L0003572	VOLUME	477507.296	3741806.054	459.34
LOCATION	L0003573	VOLUME	477510.345	3741798.023	459.34
LOCATION	L0003574	VOLUME	477513.394	3741789.992	459.37
** End of LINE VOLUME Source ID = SLINE4					
LOCATION	STCK1	POINT	477326.040	3741793.170	463.930
** DESCRSRC West entrance/exit					
LOCATION	STCK2	POINT	477332.784	3741793.350	463.740
** DESCRSRC West entrance/exit					
LOCATION	STCK3	POINT	477435.450	3741790.797	461.260
** DESCRSRC West entrance/exit					
LOCATION	STCK4	POINT	477442.927	3741790.615	461.070
** DESCRSRC West entrance/exit					
** Source Parameters **					
** LINE VOLUME Source ID = SLINE1					
SRCPARAM	L0003339	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003340	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003341	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003342	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003343	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003344	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003345	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003346	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003347	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003348	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003349	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003350	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003351	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003352	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003353	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003354	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003355	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003356	0.0000004018	3.66	4.00	3.79

SRCPARAM	L0003357	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003358	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003359	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003360	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003361	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003362	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003363	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003364	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003365	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003366	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003367	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003368	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003369	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003370	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003371	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003372	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003373	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003374	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003375	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003376	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003377	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003378	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003379	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003380	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003381	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003382	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003383	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003384	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003385	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003386	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003387	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003388	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003389	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003390	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003391	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003392	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003393	0.0000004018	3.66	4.00	3.79
SRCPARAM	L0003394	0.0000004018	3.66	4.00	3.79

**

** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0003395	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003396	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003397	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003398	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003399	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003400	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003401	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003402	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003403	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003404	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003405	0.0000002585	3.66	6.74	1.63

SRCPARAM	L0003406	0.0000002585	3.66	6.74	1.63
SRCPARAM	L0003407	0.0000002585	3.66	6.74	1.63

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** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0003408	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003409	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003410	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003411	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003412	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003413	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003414	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003415	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003416	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003417	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003418	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003419	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003420	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003421	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003422	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003423	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003424	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003425	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003426	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003427	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003428	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003429	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003430	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003431	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003432	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003433	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003434	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003435	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003436	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003437	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003438	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003439	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003440	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003441	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003442	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003443	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003444	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003445	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003446	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003447	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003448	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003449	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003450	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003451	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003452	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003453	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003454	0.00000007746	3.66	4.00	1.63

SRCPARAM	L0003455	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003456	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003457	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003458	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003459	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003460	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003461	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003462	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003463	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003464	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003465	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003466	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003467	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003468	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003469	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003470	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003471	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003472	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003473	0.00000007746	3.66	4.00	1.63
SRCPARAM	L0003474	0.00000007746	3.66	4.00	1.63

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 ** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0003475	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003476	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003477	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003478	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003479	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003480	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003481	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003482	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003483	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003484	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003485	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003486	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003487	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003488	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003489	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003490	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003491	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003492	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003493	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003494	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003495	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003496	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003497	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003498	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003499	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003500	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003501	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003502	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003503	0.0000000775	3.66	4.00	1.63

SRCPARAM	L0003555	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003556	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003557	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003558	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003559	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003560	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003561	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003562	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003563	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003564	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003565	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003566	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003567	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003568	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003569	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003570	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003571	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003572	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003573	0.0000000775	3.66	4.00	1.63
SRCPARAM	L0003574	0.0000000775	3.66	4.00	1.63

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SRCPARAM	STCK1	0.000028	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.000028	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.000028	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.000028	3.658	366.000	51.90000	0.100

** Building Downwash **

BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK3	0.00	0.00	0.00	0.00	8.15	8.15
BUILDHGT	STCK3	8.15	8.15	8.15	8.15	8.15	0.00
BUILDHGT	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK3	0.00	0.00	0.00	0.00	8.15	8.15
BUILDHGT	STCK3	8.15	8.15	8.15	8.15	8.15	0.00
BUILDHGT	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK4	0.00	0.00	0.00	0.00	8.15	8.15
BUILDHGT	STCK4	8.15	8.15	8.15	8.15	8.15	0.00

BUILDHGT	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK4	0.00	0.00	0.00	0.00	8.15	8.15
BUILDHGT	STCK4	0.00	0.00	0.00	8.15	8.15	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK3	0.00	0.00	0.00	0.00	51.39	52.99
BUILDWID	STCK3	52.97	51.35	48.17	43.52	37.55	0.00
BUILDWID	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK3	0.00	0.00	0.00	0.00	51.39	52.99
BUILDWID	STCK3	52.97	51.35	48.17	43.52	37.55	0.00
BUILDWID	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK4	0.00	0.00	0.00	0.00	51.39	52.99
BUILDWID	STCK4	52.97	51.35	48.17	43.52	37.55	0.00
BUILDWID	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK4	0.00	0.00	0.00	0.00	51.39	52.99
BUILDWID	STCK4	0.00	0.00	0.00	43.52	37.55	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK3	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	32.39	35.15

BUILDLLEN	STCK3	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLLEN	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK4	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLLEN	STCK4	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLLEN	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLLEN	STCK4	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLLEN	STCK4	0.00	0.00	0.00	46.41	44.28	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	-46.11	-51.38
XBADJ	STCK3	-56.53	-62.09	-64.16	-61.59	-58.75	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	13.72	16.23
XBADJ	STCK3	16.79	14.73	13.81	15.18	14.47	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	-53.21	-57.95
XBADJ	STCK4	-62.38	-67.04	-68.07	-64.32	-60.24	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	20.81	22.80
XBADJ	STCK4	0.00	0.00	0.00	17.91	15.95	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00

YBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	25.00	19.43
YBADJ	STCK3	13.26	6.69	-0.08	-6.85	-13.41	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	-25.00	-19.43
YBADJ	STCK3	-13.26	-6.69	0.08	6.85	13.41	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	22.62	15.85
YBADJ	STCK4	8.60	1.09	-6.46	-13.81	-20.74	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	-22.62	-15.85
YBADJ	STCK4	0.00	0.00	0.00	13.81	20.74	0.00

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19365 Harvill Trailer Storage Yard OY rev.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC"

PROFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL"

SURFDATA 3171 2010

UAIRDATA 3190 2010

SITEDATA 99999 2010

PROFBASE 442.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "19365 HARVILL TRAILER STORAGE YARD OY REV.AD\PE00GALL.PLT" 31

SUMMFILE "19365 Harvill Trailer Storage Yard OY rev.sum"

OU FINISHED

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

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

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

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

***** WARNING MESSAGES *****

SO W320	633	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	634	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	635	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	636	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	804	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	804	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 21112 ***	*** Harvill revised with new site plan	***	01/19/22
*** AERMET - VERSION 16216 ***	*** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year	***	17:01:50
*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*			PAGE 1

*** 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 240 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.

3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:

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

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 240 Source(s); 1 Source Group(s); and 449 Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 236 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) = 442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

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

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

**Detailed Error/Message File: 19365 Harvill Trailer Storage Yard OY rev.err

**File for Summary of Results: 19365 Harvill Trailer Storage Yard OY rev.sum

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
PAGE 2

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.28000E-04	477326.0	3741793.2	463.9	3.66	366.00	51.90	0.10	NO	YES	NO	
STCK2	0	0.28000E-04	477332.8	3741793.3	463.7	3.66	366.00	51.90	0.10	NO	YES	NO	
STCK3	0	0.28000E-04	477435.5	3741790.8	461.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.28000E-04	477442.9	3741790.6	461.1	3.66	366.00	51.90	0.10	YES	YES	NO	

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDEFAULT 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
L0003339	0	0.40180E-06	477330.5	3741790.9	463.8	3.66	4.00	3.79	YES	
L0003340	0	0.40180E-06	477330.5	3741799.5	463.9	3.66	4.00	3.79	YES	
L0003341	0	0.40180E-06	477330.4	3741808.1	463.9	3.66	4.00	3.79	YES	
L0003342	0	0.40180E-06	477330.3	3741816.7	463.9	3.66	4.00	3.79	YES	
L0003343	0	0.40180E-06	477330.3	3741825.2	463.9	3.66	4.00	3.79	YES	
L0003344	0	0.40180E-06	477330.2	3741833.8	463.9	3.66	4.00	3.79	YES	
L0003345	0	0.40180E-06	477330.2	3741842.4	463.8	3.66	4.00	3.79	YES	
L0003346	0	0.40180E-06	477330.1	3741851.0	463.8	3.66	4.00	3.79	YES	
L0003347	0	0.40180E-06	477330.0	3741859.6	463.7	3.66	4.00	3.79	YES	
L0003348	0	0.40180E-06	477330.0	3741868.2	463.6	3.66	4.00	3.79	YES	
L0003349	0	0.40180E-06	477326.7	3741875.7	463.7	3.66	4.00	3.79	YES	
L0003350	0	0.40180E-06	477318.7	3741876.8	463.9	3.66	4.00	3.79	YES	
L0003351	0	0.40180E-06	477310.1	3741876.7	464.2	3.66	4.00	3.79	YES	
L0003352	0	0.40180E-06	477301.5	3741876.7	464.4	3.66	4.00	3.79	YES	
L0003353	0	0.40180E-06	477292.9	3741876.6	464.7	3.66	4.00	3.79	YES	
L0003354	0	0.40180E-06	477284.4	3741876.5	464.9	3.66	4.00	3.79	YES	
L0003355	0	0.40180E-06	477275.8	3741876.4	465.1	3.66	4.00	3.79	YES	
L0003356	0	0.40180E-06	477268.2	3741880.3	465.3	3.66	4.00	3.79	YES	

L0003357	0	0.40180E-06	477268.0	3741888.8	465.3	3.66	4.00	3.79	YES
L0003358	0	0.40180E-06	477268.0	3741897.4	465.2	3.66	4.00	3.79	YES
L0003359	0	0.40180E-06	477268.0	3741906.0	465.2	3.66	4.00	3.79	YES
L0003360	0	0.40180E-06	477268.0	3741914.5	465.3	3.66	4.00	3.79	YES
L0003361	0	0.40180E-06	477268.0	3741923.1	465.3	3.66	4.00	3.79	YES
L0003362	0	0.40180E-06	477268.0	3741931.7	465.4	3.66	4.00	3.79	YES
L0003363	0	0.40180E-06	477269.3	3741939.9	465.4	3.66	4.00	3.79	YES
L0003364	0	0.40180E-06	477276.6	3741943.5	465.1	3.66	4.00	3.79	YES
L0003365	0	0.40180E-06	477285.1	3741943.2	464.9	3.66	4.00	3.79	YES
L0003366	0	0.40180E-06	477293.1	3741940.1	464.6	3.66	4.00	3.79	YES
L0003367	0	0.40180E-06	477299.9	3741934.9	464.4	3.66	4.00	3.79	YES
L0003368	0	0.40180E-06	477306.7	3741929.7	464.2	3.66	4.00	3.79	YES
L0003369	0	0.40180E-06	477313.6	3741924.5	464.0	3.66	4.00	3.79	YES
L0003370	0	0.40180E-06	477320.4	3741919.2	463.8	3.66	4.00	3.79	YES
L0003371	0	0.40180E-06	477327.2	3741914.0	463.6	3.66	4.00	3.79	YES
L0003372	0	0.40180E-06	477334.0	3741908.8	463.4	3.66	4.00	3.79	YES
L0003373	0	0.40180E-06	477340.9	3741903.6	463.2	3.66	4.00	3.79	YES
L0003374	0	0.40180E-06	477347.7	3741898.4	463.0	3.66	4.00	3.79	YES
L0003375	0	0.40180E-06	477354.5	3741893.2	462.9	3.66	4.00	3.79	YES
L0003376	0	0.40180E-06	477361.4	3741888.0	462.7	3.66	4.00	3.79	YES
L0003377	0	0.40180E-06	477368.2	3741882.7	462.5	3.66	4.00	3.79	YES
L0003378	0	0.40180E-06	477375.0	3741877.5	462.4	3.66	4.00	3.79	YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 4

*** 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
L0003379	0	0.40180E-06	477381.8	3741872.3	462.2	3.66	4.00	3.79	YES		
L0003380	0	0.40180E-06	477388.7	3741867.1	462.1	3.66	4.00	3.79	YES		
L0003381	0	0.40180E-06	477395.5	3741861.9	461.9	3.66	4.00	3.79	YES		
L0003382	0	0.40180E-06	477402.3	3741856.7	461.8	3.66	4.00	3.79	YES		
L0003383	0	0.40180E-06	477409.7	3741852.5	461.7	3.66	4.00	3.79	YES		
L0003384	0	0.40180E-06	477418.3	3741852.1	461.5	3.66	4.00	3.79	YES		
L0003385	0	0.40180E-06	477426.8	3741851.8	461.3	3.66	4.00	3.79	YES		
L0003386	0	0.40180E-06	477435.4	3741851.4	461.1	3.66	4.00	3.79	YES		
L0003387	0	0.40180E-06	477442.2	3741847.3	460.9	3.66	4.00	3.79	YES		
L0003388	0	0.40180E-06	477443.4	3741838.8	460.9	3.66	4.00	3.79	YES		
L0003389	0	0.40180E-06	477443.3	3741830.3	461.0	3.66	4.00	3.79	YES		
L0003390	0	0.40180E-06	477443.2	3741821.7	461.0	3.66	4.00	3.79	YES		
L0003391	0	0.40180E-06	477443.2	3741813.1	461.1	3.66	4.00	3.79	YES		
L0003392	0	0.40180E-06	477442.4	3741804.5	461.1	3.66	4.00	3.79	YES		
L0003393	0	0.40180E-06	477440.1	3741796.3	461.2	3.66	4.00	3.79	YES		

L0003394	0	0.40180E-06	477439.9	3741787.8	461.1	3.66	4.00	3.79	YES
L0003395	0	0.25850E-06	477337.2	3741778.7	463.5	3.66	6.74	1.63	YES
L0003396	0	0.25850E-06	477351.7	3741778.6	463.1	3.66	6.74	1.63	YES
L0003397	0	0.25850E-06	477366.2	3741778.6	462.8	3.66	6.74	1.63	YES
L0003398	0	0.25850E-06	477380.7	3741778.5	462.5	3.66	6.74	1.63	YES
L0003399	0	0.25850E-06	477395.2	3741778.5	462.2	3.66	6.74	1.63	YES
L0003400	0	0.25850E-06	477409.7	3741778.4	461.8	3.66	6.74	1.63	YES
L0003401	0	0.25850E-06	477424.2	3741778.4	461.5	3.66	6.74	1.63	YES
L0003402	0	0.25850E-06	477438.7	3741778.3	461.2	3.66	6.74	1.63	YES
L0003403	0	0.25850E-06	477453.2	3741778.3	460.8	3.66	6.74	1.63	YES
L0003404	0	0.25850E-06	477467.7	3741778.2	460.5	3.66	6.74	1.63	YES
L0003405	0	0.25850E-06	477482.2	3741778.2	460.3	3.66	6.74	1.63	YES
L0003406	0	0.25850E-06	477496.7	3741778.1	460.1	3.66	6.74	1.63	YES
L0003407	0	0.25850E-06	477511.2	3741778.1	459.7	3.66	6.74	1.63	YES
L0003408	0	0.77460E-07	477517.4	3741766.8	459.6	3.66	4.00	1.63	YES
L0003409	0	0.77460E-07	477518.6	3741758.3	459.6	3.66	4.00	1.63	YES
L0003410	0	0.77460E-07	477519.7	3741749.8	459.6	3.66	4.00	1.63	YES
L0003411	0	0.77460E-07	477519.6	3741741.2	459.7	3.66	4.00	1.63	YES
L0003412	0	0.77460E-07	477519.5	3741732.6	459.7	3.66	4.00	1.63	YES
L0003413	0	0.77460E-07	477519.4	3741724.1	459.8	3.66	4.00	1.63	YES
L0003414	0	0.77460E-07	477519.3	3741715.5	459.8	3.66	4.00	1.63	YES
L0003415	0	0.77460E-07	477519.3	3741706.9	459.9	3.66	4.00	1.63	YES
L0003416	0	0.77460E-07	477519.4	3741698.3	460.0	3.66	4.00	1.63	YES
L0003417	0	0.77460E-07	477519.5	3741689.7	460.1	3.66	4.00	1.63	YES
L0003418	0	0.77460E-07	477519.6	3741681.1	460.1	3.66	4.00	1.63	YES

*** AERMOD - VERSION 21112 ***
 *** AERMET - VERSION 16216 ***

*** Harvill revised with new site plan
 *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year

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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
L0003419	0	0.77460E-07	477519.7	3741672.5	460.2	3.66	4.00	1.63	YES	
L0003420	0	0.77460E-07	477519.8	3741663.9	460.3	3.66	4.00	1.63	YES	
L0003421	0	0.77460E-07	477519.9	3741655.3	460.4	3.66	4.00	1.63	YES	
L0003422	0	0.77460E-07	477520.0	3741646.7	460.5	3.66	4.00	1.63	YES	
L0003423	0	0.77460E-07	477520.1	3741638.2	460.6	3.66	4.00	1.63	YES	
L0003424	0	0.77460E-07	477520.2	3741629.6	460.7	3.66	4.00	1.63	YES	
L0003425	0	0.77460E-07	477520.3	3741621.0	460.8	3.66	4.00	1.63	YES	
L0003426	0	0.77460E-07	477520.4	3741612.4	460.9	3.66	4.00	1.63	YES	
L0003427	0	0.77460E-07	477520.4	3741603.8	461.0	3.66	4.00	1.63	YES	
L0003428	0	0.77460E-07	477520.5	3741595.2	461.1	3.66	4.00	1.63	YES	
L0003429	0	0.77460E-07	477520.6	3741586.6	461.1	3.66	4.00	1.63	YES	
L0003430	0	0.77460E-07	477520.5	3741578.0	461.2	3.66	4.00	1.63	YES	

L0003431	0	0.77460E-07	477520.5	3741569.4	461.3	3.66	4.00	1.63	YES
L0003432	0	0.77460E-07	477520.5	3741560.8	461.4	3.66	4.00	1.63	YES
L0003433	0	0.77460E-07	477520.4	3741552.2	461.4	3.66	4.00	1.63	YES
L0003434	0	0.77460E-07	477520.4	3741543.7	461.5	3.66	4.00	1.63	YES
L0003435	0	0.77460E-07	477520.3	3741535.1	461.6	3.66	4.00	1.63	YES
L0003436	0	0.77460E-07	477520.3	3741526.5	461.7	3.66	4.00	1.63	YES
L0003437	0	0.77460E-07	477520.2	3741517.9	461.8	3.66	4.00	1.63	YES
L0003438	0	0.77460E-07	477520.2	3741509.3	461.8	3.66	4.00	1.63	YES
L0003439	0	0.77460E-07	477520.2	3741500.7	461.9	3.66	4.00	1.63	YES
L0003440	0	0.77460E-07	477520.1	3741492.1	462.0	3.66	4.00	1.63	YES
L0003441	0	0.77460E-07	477520.1	3741483.5	462.1	3.66	4.00	1.63	YES
L0003442	0	0.77460E-07	477520.0	3741474.9	462.1	3.66	4.00	1.63	YES
L0003443	0	0.77460E-07	477520.0	3741466.3	462.2	3.66	4.00	1.63	YES
L0003444	0	0.77460E-07	477520.0	3741457.8	462.3	3.66	4.00	1.63	YES
L0003445	0	0.77460E-07	477519.9	3741449.2	462.3	3.66	4.00	1.63	YES
L0003446	0	0.77460E-07	477519.9	3741440.6	462.4	3.66	4.00	1.63	YES
L0003447	0	0.77460E-07	477519.8	3741432.0	462.5	3.66	4.00	1.63	YES
L0003448	0	0.77460E-07	477519.8	3741423.4	462.6	3.66	4.00	1.63	YES
L0003449	0	0.77460E-07	477519.8	3741414.8	462.7	3.66	4.00	1.63	YES
L0003450	0	0.77460E-07	477519.7	3741406.2	462.8	3.66	4.00	1.63	YES
L0003451	0	0.77460E-07	477519.7	3741397.6	462.9	3.66	4.00	1.63	YES
L0003452	0	0.77460E-07	477519.6	3741389.0	463.0	3.66	4.00	1.63	YES
L0003453	0	0.77460E-07	477519.6	3741380.4	463.1	3.66	4.00	1.63	YES
L0003454	0	0.77460E-07	477519.6	3741371.8	463.2	3.66	4.00	1.63	YES
L0003455	0	0.77460E-07	477519.5	3741363.3	463.2	3.66	4.00	1.63	YES
L0003456	0	0.77460E-07	477519.5	3741354.7	463.3	3.66	4.00	1.63	YES
L0003457	0	0.77460E-07	477519.4	3741346.1	463.3	3.66	4.00	1.63	YES
L0003458	0	0.77460E-07	477519.4	3741337.5	463.4	3.66	4.00	1.63	YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year ***

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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
L0003459	0	0.77460E-07	477519.4	3741328.9	463.5	3.66	4.00	1.63	YES	
L0003460	0	0.77460E-07	477519.3	3741320.3	463.6	3.66	4.00	1.63	YES	
L0003461	0	0.77460E-07	477519.3	3741311.7	463.7	3.66	4.00	1.63	YES	
L0003462	0	0.77460E-07	477519.2	3741303.1	463.8	3.66	4.00	1.63	YES	
L0003463	0	0.77460E-07	477519.2	3741294.5	463.9	3.66	4.00	1.63	YES	
L0003464	0	0.77460E-07	477519.2	3741285.9	463.9	3.66	4.00	1.63	YES	
L0003465	0	0.77460E-07	477519.1	3741277.3	463.9	3.66	4.00	1.63	YES	
L0003466	0	0.77460E-07	477519.1	3741268.8	463.9	3.66	4.00	1.63	YES	
L0003467	0	0.77460E-07	477519.0	3741260.2	463.9	3.66	4.00	1.63	YES	

L0003468	0	0.77460E-07	477519.0	3741251.6	463.9	3.66	4.00	1.63	YES
L0003469	0	0.77460E-07	477519.0	3741243.0	463.8	3.66	4.00	1.63	YES
L0003470	0	0.77460E-07	477518.9	3741234.4	463.7	3.66	4.00	1.63	YES
L0003471	0	0.77460E-07	477518.9	3741225.8	463.6	3.66	4.00	1.63	YES
L0003472	0	0.77460E-07	477518.8	3741217.2	463.6	3.66	4.00	1.63	YES
L0003473	0	0.77460E-07	477519.5	3741208.6	463.6	3.66	4.00	1.63	YES
L0003474	0	0.77460E-07	477520.2	3741200.1	463.5	3.66	4.00	1.63	YES
L0003475	0	0.77500E-07	477255.0	3742544.0	459.2	3.66	4.00	1.63	YES
L0003476	0	0.77500E-07	477255.0	3742535.4	459.3	3.66	4.00	1.63	YES
L0003477	0	0.77500E-07	477255.0	3742526.8	459.4	3.66	4.00	1.63	YES
L0003478	0	0.77500E-07	477255.0	3742518.2	459.4	3.66	4.00	1.63	YES
L0003479	0	0.77500E-07	477255.1	3742509.6	459.5	3.66	4.00	1.63	YES
L0003480	0	0.77500E-07	477255.1	3742501.0	459.6	3.66	4.00	1.63	YES
L0003481	0	0.77500E-07	477255.1	3742492.4	459.7	3.66	4.00	1.63	YES
L0003482	0	0.77500E-07	477255.2	3742483.8	459.8	3.66	4.00	1.63	YES
L0003483	0	0.77500E-07	477255.2	3742475.2	459.9	3.66	4.00	1.63	YES
L0003484	0	0.77500E-07	477255.2	3742466.7	460.0	3.66	4.00	1.63	YES
L0003485	0	0.77500E-07	477255.2	3742458.1	460.1	3.66	4.00	1.63	YES
L0003486	0	0.77500E-07	477255.3	3742449.5	460.2	3.66	4.00	1.63	YES
L0003487	0	0.77500E-07	477255.3	3742440.9	460.3	3.66	4.00	1.63	YES
L0003488	0	0.77500E-07	477255.3	3742432.3	460.3	3.66	4.00	1.63	YES
L0003489	0	0.77500E-07	477255.4	3742423.7	460.4	3.66	4.00	1.63	YES
L0003490	0	0.77500E-07	477255.4	3742415.1	460.5	3.66	4.00	1.63	YES
L0003491	0	0.77500E-07	477255.4	3742406.5	460.6	3.66	4.00	1.63	YES
L0003492	0	0.77500E-07	477255.4	3742397.9	460.6	3.66	4.00	1.63	YES
L0003493	0	0.77500E-07	477255.5	3742389.3	460.7	3.66	4.00	1.63	YES
L0003494	0	0.77500E-07	477255.5	3742380.7	460.8	3.66	4.00	1.63	YES
L0003495	0	0.77500E-07	477255.5	3742372.2	460.9	3.66	4.00	1.63	YES
L0003496	0	0.77500E-07	477255.6	3742363.6	461.0	3.66	4.00	1.63	YES
L0003497	0	0.77500E-07	477255.6	3742355.0	461.1	3.66	4.00	1.63	YES
L0003498	0	0.77500E-07	477255.6	3742346.4	461.2	3.66	4.00	1.63	YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X Y		BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
			(METERS)	(METERS)						
L0003499	0	0.77500E-07	477255.6	3742337.8	461.3	3.66	4.00	1.63	YES	
L0003500	0	0.77500E-07	477255.7	3742329.2	461.4	3.66	4.00	1.63	YES	
L0003501	0	0.77500E-07	477255.7	3742320.6	461.4	3.66	4.00	1.63	YES	
L0003502	0	0.77500E-07	477255.7	3742312.0	461.5	3.66	4.00	1.63	YES	
L0003503	0	0.77500E-07	477255.8	3742303.4	461.6	3.66	4.00	1.63	YES	
L0003504	0	0.77500E-07	477255.8	3742294.8	461.7	3.66	4.00	1.63	YES	

L0003505	0	0.77500E-07	477255.8	3742286.2	461.8	3.66	4.00	1.63	YES
L0003506	0	0.77500E-07	477255.8	3742277.7	461.9	3.66	4.00	1.63	YES
L0003507	0	0.77500E-07	477255.9	3742269.1	461.9	3.66	4.00	1.63	YES
L0003508	0	0.77500E-07	477255.9	3742260.5	462.0	3.66	4.00	1.63	YES
L0003509	0	0.77500E-07	477255.9	3742251.9	462.2	3.66	4.00	1.63	YES
L0003510	0	0.77500E-07	477256.0	3742243.3	462.3	3.66	4.00	1.63	YES
L0003511	0	0.77500E-07	477256.0	3742234.7	462.4	3.66	4.00	1.63	YES
L0003512	0	0.77500E-07	477256.0	3742226.1	462.5	3.66	4.00	1.63	YES
L0003513	0	0.77500E-07	477256.0	3742217.5	462.7	3.66	4.00	1.63	YES
L0003514	0	0.77500E-07	477256.1	3742208.9	462.8	3.66	4.00	1.63	YES
L0003515	0	0.77500E-07	477256.1	3742200.3	463.0	3.66	4.00	1.63	YES
L0003516	0	0.77500E-07	477256.1	3742191.7	463.2	3.66	4.00	1.63	YES
L0003517	0	0.77500E-07	477256.2	3742183.2	463.4	3.66	4.00	1.63	YES
L0003518	0	0.77500E-07	477256.4	3742174.6	463.6	3.66	4.00	1.63	YES
L0003519	0	0.77500E-07	477256.9	3742166.0	463.8	3.66	4.00	1.63	YES
L0003520	0	0.77500E-07	477257.3	3742157.4	463.9	3.66	4.00	1.63	YES
L0003521	0	0.77500E-07	477257.8	3742148.8	464.1	3.66	4.00	1.63	YES
L0003522	0	0.77500E-07	477258.5	3742140.3	464.1	3.66	4.00	1.63	YES
L0003523	0	0.77500E-07	477259.7	3742131.8	464.2	3.66	4.00	1.63	YES
L0003524	0	0.77500E-07	477261.2	3742123.3	464.2	3.66	4.00	1.63	YES
L0003525	0	0.77500E-07	477263.4	3742115.0	464.2	3.66	4.00	1.63	YES
L0003526	0	0.77500E-07	477265.7	3742106.7	464.4	3.66	4.00	1.63	YES
L0003527	0	0.77500E-07	477268.2	3742098.5	464.4	3.66	4.00	1.63	YES
L0003528	0	0.77500E-07	477270.6	3742090.3	464.5	3.66	4.00	1.63	YES
L0003529	0	0.77500E-07	477273.1	3742082.1	464.6	3.66	4.00	1.63	YES
L0003530	0	0.77500E-07	477275.6	3742073.8	464.6	3.66	4.00	1.63	YES
L0003531	0	0.77500E-07	477279.5	3742066.2	464.6	3.66	4.00	1.63	YES
L0003532	0	0.77500E-07	477283.5	3742058.6	464.6	3.66	4.00	1.63	YES
L0003533	0	0.77500E-07	477287.4	3742050.9	464.6	3.66	4.00	1.63	YES
L0003534	0	0.77500E-07	477291.5	3742043.4	464.6	3.66	4.00	1.63	YES
L0003535	0	0.77500E-07	477296.0	3742036.0	464.5	3.66	4.00	1.63	YES
L0003536	0	0.77500E-07	477300.4	3742028.7	464.5	3.66	4.00	1.63	YES
L0003537	0	0.77500E-07	477304.9	3742021.4	464.4	3.66	4.00	1.63	YES
L0003538	0	0.77500E-07	477309.5	3742014.1	464.3	3.66	4.00	1.63	YES

*** AERMOD - VERSION 21112 ***

*** AERMET - VERSION 16216 ***

*** Harvill revised with new site plan

*** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year

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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
L0003539	0	0.77500E-07	477315.2	3742007.7	464.2	3.66	4.00	1.63	YES	
L0003540	0	0.77500E-07	477320.8	3742001.2	464.1	3.66	4.00	1.63	YES	
L0003541	0	0.77500E-07	477326.5	3741994.8	463.9	3.66	4.00	1.63	YES	

L0003542	0	0.77500E-07	477332.2	3741988.3	463.8	3.66	4.00	1.63	YES
L0003543	0	0.77500E-07	477338.4	3741982.4	463.6	3.66	4.00	1.63	YES
L0003544	0	0.77500E-07	477344.8	3741976.6	463.4	3.66	4.00	1.63	YES
L0003545	0	0.77500E-07	477351.2	3741971.0	463.3	3.66	4.00	1.63	YES
L0003546	0	0.77500E-07	477358.0	3741965.7	463.1	3.66	4.00	1.63	YES
L0003547	0	0.77500E-07	477364.8	3741960.4	462.9	3.66	4.00	1.63	YES
L0003548	0	0.77500E-07	477371.7	3741955.3	462.7	3.66	4.00	1.63	YES
L0003549	0	0.77500E-07	477378.8	3741950.5	462.6	3.66	4.00	1.63	YES
L0003550	0	0.77500E-07	477385.9	3741945.7	462.4	3.66	4.00	1.63	YES
L0003551	0	0.77500E-07	477393.0	3741940.8	462.2	3.66	4.00	1.63	YES
L0003552	0	0.77500E-07	477400.1	3741936.0	462.0	3.66	4.00	1.63	YES
L0003553	0	0.77500E-07	477407.2	3741931.2	461.8	3.66	4.00	1.63	YES
L0003554	0	0.77500E-07	477414.3	3741926.3	461.6	3.66	4.00	1.63	YES
L0003555	0	0.77500E-07	477421.1	3741921.1	461.4	3.66	4.00	1.63	YES
L0003556	0	0.77500E-07	477427.9	3741915.8	461.2	3.66	4.00	1.63	YES
L0003557	0	0.77500E-07	477434.7	3741910.5	461.0	3.66	4.00	1.63	YES
L0003558	0	0.77500E-07	477441.3	3741905.0	460.8	3.66	4.00	1.63	YES
L0003559	0	0.77500E-07	477447.8	3741899.5	460.7	3.66	4.00	1.63	YES
L0003560	0	0.77500E-07	477453.7	3741893.2	460.5	3.66	4.00	1.63	YES
L0003561	0	0.77500E-07	477459.4	3741886.8	460.4	3.66	4.00	1.63	YES
L0003562	0	0.77500E-07	477465.0	3741880.3	460.3	3.66	4.00	1.63	YES
L0003563	0	0.77500E-07	477470.7	3741873.8	460.1	3.66	4.00	1.63	YES
L0003564	0	0.77500E-07	477475.8	3741866.9	460.0	3.66	4.00	1.63	YES
L0003565	0	0.77500E-07	477480.6	3741859.8	459.9	3.66	4.00	1.63	YES
L0003566	0	0.77500E-07	477484.8	3741852.3	459.8	3.66	4.00	1.63	YES
L0003567	0	0.77500E-07	477489.0	3741844.8	459.7	3.66	4.00	1.63	YES
L0003568	0	0.77500E-07	477493.0	3741837.2	459.6	3.66	4.00	1.63	YES
L0003569	0	0.77500E-07	477497.1	3741829.7	459.5	3.66	4.00	1.63	YES
L0003570	0	0.77500E-07	477501.1	3741822.1	459.5	3.66	4.00	1.63	YES
L0003571	0	0.77500E-07	477504.2	3741814.1	459.4	3.66	4.00	1.63	YES
L0003572	0	0.77500E-07	477507.3	3741806.1	459.3	3.66	4.00	1.63	YES
L0003573	0	0.77500E-07	477510.3	3741798.0	459.3	3.66	4.00	1.63	YES
L0003574	0	0.77500E-07	477513.4	3741790.0	459.4	3.66	4.00	1.63	YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year

*** 01/19/22
 *** 17:01:50
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs															
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ALL	L0003339	,	L0003340	,	L0003341	,	L0003342	,	L0003343	,	L0003344	,	L0003345	,	L0003346	,
	L0003347	,	L0003348	,	L0003349	,	L0003350	,	L0003351	,	L0003352	,	L0003353	,	L0003354	,
	L0003355	,	L0003356	,	L0003357	,	L0003358	,	L0003359	,	L0003360	,	L0003361	,	L0003362	,

L0003363 , L0003364 , L0003365 , L0003366 , L0003367 , L0003368 , L0003369 , L0003370 ,
 L0003371 , L0003372 , L0003373 , L0003374 , L0003375 , L0003376 , L0003377 , L0003378 ,
 L0003379 , L0003380 , L0003381 , L0003382 , L0003383 , L0003384 , L0003385 , L0003386 ,
 L0003387 , L0003388 , L0003389 , L0003390 , L0003391 , L0003392 , L0003393 , L0003394 ,
 L0003395 , L0003396 , L0003397 , L0003398 , L0003399 , L0003400 , L0003401 , L0003402 ,
 L0003403 , L0003404 , L0003405 , L0003406 , L0003407 , L0003408 , L0003409 , L0003410 ,
 L0003411 , L0003412 , L0003413 , L0003414 , L0003415 , L0003416 , L0003417 , L0003418 ,
 L0003419 , L0003420 , L0003421 , L0003422 , L0003423 , L0003424 , L0003425 , L0003426 ,
 L0003427 , L0003428 , L0003429 , L0003430 , L0003431 , L0003432 , L0003433 , L0003434 ,
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 L0003475 , L0003476 , L0003477 , L0003478 , L0003479 , L0003480 , L0003481 , L0003482 ,
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 L0003491 , L0003492 , L0003493 , L0003494 , L0003495 , L0003496 , L0003497 , L0003498 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U* PAGE 10

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

L0003499 , L0003500 , L0003501 , L0003502 , L0003503 , L0003504 , L0003505 , L0003506 ,
 L0003507 , L0003508 , L0003509 , L0003510 , L0003511 , L0003512 , L0003513 , L0003514 ,

L0003515 , L0003516 , L0003517 , L0003518 , L0003519 , L0003520 , L0003521 , L0003522 ,
 L0003523 , L0003524 , L0003525 , L0003526 , L0003527 , L0003528 , L0003529 , L0003530 ,
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 L0003563 , L0003564 , L0003565 , L0003566 , L0003567 , L0003568 , L0003569 , L0003570 ,
 L0003571 , L0003572 , L0003573 , L0003574 , STCK1 , STCK2 , STCK3 , STCK4 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* *** PAGE 11

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

URBAN ID	URBAN POP	SOURCE IDs							
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L0003346	2189641.	L0003339	, L0003340	, L0003341	, L0003342	, L0003343	, L0003344	, L0003345	,
	,								
	L0003347	, L0003348	, L0003349	, L0003350	, L0003351	, L0003352	, L0003353	, L0003354	,
	L0003355	, L0003356	, L0003357	, L0003358	, L0003359	, L0003360	, L0003361	, L0003362	,
	L0003363	, L0003364	, L0003365	, L0003366	, L0003367	, L0003368	, L0003369	, L0003370	,
	L0003371	, L0003372	, L0003373	, L0003374	, L0003375	, L0003376	, L0003377	, L0003378	,
	L0003379	, L0003380	, L0003381	, L0003382	, L0003383	, L0003384	, L0003385	, L0003386	,
	L0003387	, L0003388	, L0003389	, L0003390	, L0003391	, L0003392	, L0003393	, L0003394	,
	L0003395	, L0003396	, L0003397	, L0003398	, L0003399	, L0003400	, L0003401	, L0003402	,
	L0003403	, L0003404	, L0003405	, L0003406	, L0003407	, L0003408	, L0003409	, L0003410	,
	L0003411	, L0003412	, L0003413	, L0003414	, L0003415	, L0003416	, L0003417	, L0003418	,
	L0003419	, L0003420	, L0003421	, L0003422	, L0003423	, L0003424	, L0003425	, L0003426	,

L0003427 , L0003428 , L0003429 , L0003430 , L0003431 , L0003432 , L0003433 , L0003434 ,
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 L0003475 , L0003476 , L0003477 , L0003478 , L0003479 , L0003480 , L0003481 , L0003482 ,
 L0003483 , L0003484 , L0003485 , L0003486 , L0003487 , L0003488 , L0003489 , L0003490 ,
 L0003491 , L0003492 , L0003493 , L0003494 , L0003495 , L0003496 , L0003497 , L0003498 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs													
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----						
L0003499	,	L0003500	,	L0003501	,	L0003502	,	L0003503	,	L0003504	,	L0003505	,	L0003506	,
L0003507	,	L0003508	,	L0003509	,	L0003510	,	L0003511	,	L0003512	,	L0003513	,	L0003514	,
L0003515	,	L0003516	,	L0003517	,	L0003518	,	L0003519	,	L0003520	,	L0003521	,	L0003522	,
L0003523	,	L0003524	,	L0003525	,	L0003526	,	L0003527	,	L0003528	,	L0003529	,	L0003530	,
L0003531	,	L0003532	,	L0003533	,	L0003534	,	L0003535	,	L0003536	,	L0003537	,	L0003538	,
L0003539	,	L0003540	,	L0003541	,	L0003542	,	L0003543	,	L0003544	,	L0003545	,	L0003546	,
L0003547	,	L0003548	,	L0003549	,	L0003550	,	L0003551	,	L0003552	,	L0003553	,	L0003554	,
L0003555	,	L0003556	,	L0003557	,	L0003558	,	L0003559	,	L0003560	,	L0003561	,	L0003562	,
L0003563	,	L0003564	,	L0003565	,	L0003566	,	L0003567	,	L0003568	,	L0003569	,	L0003570	,
L0003571	,	L0003572	,	L0003573	,	L0003574	,	STCK1	,	STCK2	,	STCK3	,	STCK4	,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	8.2,	51.4,	32.4,	-46.1,	25.0,	12	8.2,	53.0,	35.1,	-51.4,	19.4,
13	8.2,	53.0,	39.7,	-56.5,	13.3,	14	8.2,	51.3,	47.4,	-62.1,	6.7,
15	8.2,	48.2,	50.4,	-64.2,	-0.1,	16	8.2,	43.5,	46.4,	-61.6,	-6.8,
17	8.2,	37.5,	44.3,	-58.8,	-13.4,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	8.2,	51.4,	32.4,	13.7,	-25.0,	30	8.2,	53.0,	35.1,	16.2,	-19.4,
31	8.2,	53.0,	39.7,	16.8,	-13.3,	32	8.2,	51.3,	47.4,	14.7,	-6.7,
33	8.2,	48.2,	50.4,	13.8,	0.1,	34	8.2,	43.5,	46.4,	15.2,	6.8,
35	8.2,	37.5,	44.3,	14.5,	13.4,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	8.2,	51.4,	32.4,	-53.2,	22.6,	12	8.2,	53.0,	35.1,	-57.9,	15.9,
13	8.2,	53.0,	39.7,	-62.4,	8.6,	14	8.2,	51.3,	47.4,	-67.0,	1.1,
15	8.2,	48.2,	50.4,	-68.1,	-6.5,	16	8.2,	43.5,	46.4,	-64.3,	-13.8,
17	8.2,	37.5,	44.3,	-60.2,	-20.7,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	8.2,	51.4,	32.4,	20.8,	-22.6,	30	8.2,	53.0,	35.1,	22.8,	-15.9,
31	0.0,	0.0,	0.0,	0.0,	0.0,	32	0.0,	0.0,	0.0,	0.0,	0.0,
33	0.0,	0.0,	0.0,	0.0,	0.0,	34	8.2,	43.5,	46.4,	17.9,	13.8,
35	8.2,	37.5,	44.3,	16.0,	20.7,	36	0.0,	0.0,	0.0,	0.0,	0.0,

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*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

476642.5, 476723.8, 476805.1, 476886.4, 476967.7, 477049.0, 477130.3, 477211.6, 477292.9, 477374.2,
477455.5, 477536.8, 477618.1, 477699.4, 477780.7, 477862.0, 477943.3, 478024.6, 478105.9, 478187.2,
478268.5,

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

3741193.1, 3741260.9, 3741328.7, 3741396.5, 3741464.3, 3741532.1, 3741599.9, 3741667.7, 3741735.5, 3741803.3,
3741871.1, 3741938.9, 3742006.7, 3742074.5, 3742142.3, 3742210.1, 3742277.9, 3742345.7, 3742413.5, 3742481.3,
3742549.1,

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*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	480.10	477.10	474.10	471.00	468.20	465.00	462.40	460.00	458.40
3742481.29	482.70	479.30	475.40	471.50	468.30	465.20	462.90	461.00	458.90
3742413.49	485.60	483.60	476.20	471.80	468.20	465.50	463.50	461.90	459.50
3742345.69	491.50	497.50	477.00	472.20	469.10	466.50	464.60	462.60	460.30
3742277.89	499.60	495.40	477.30	472.90	469.90	467.70	465.50	463.30	460.80
3742210.09	494.60	487.30	478.00	474.20	471.10	468.50	466.50	464.20	461.80
3742142.29	490.50	484.70	479.30	475.10	472.40	469.20	467.10	465.20	463.10
3742074.49	492.10	485.50	479.40	476.30	473.50	469.20	467.20	466.00	464.00
3742006.69	491.70	486.20	481.20	476.80	473.50	469.20	467.30	466.00	464.80
3741938.89	491.70	487.20	482.20	477.80	474.70	470.40	468.30	467.00	464.60
3741871.09	492.80	487.90	482.90	479.10	475.80	471.20	468.90	467.30	464.70
3741803.29	493.60	489.20	485.20	481.60	479.00	472.00	469.00	467.10	464.90
3741735.49	495.70	492.30	488.30	484.40	479.30	474.00	469.60	466.70	464.80
3741667.69	499.60	496.50	494.20	493.00	481.50	474.60	470.70	468.00	465.80
3741599.89	503.90	507.20	509.10	507.20	484.90	477.60	472.30	469.70	467.30

3741532.09	510.10	528.40	522.90	507.10	487.60	481.60	475.60	472.50	469.90
3741464.29	523.40	532.00	513.60	499.40	490.60	485.30	478.40	475.70	472.20
3741396.49	528.40	523.20	507.00	500.50	492.10	488.50	481.40	478.30	473.40
3741328.69	526.00	514.10	508.30	502.80	491.20	487.30	483.00	480.50	473.80
3741260.89	521.50	513.10	506.90	500.90	492.60	489.20	484.50	479.00	474.20
3741193.09	522.90	512.80	506.60	501.10	495.20	491.10	484.80	479.50	474.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
 PAGE 16

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	458.30	459.60	459.40	459.60	454.20	454.00	450.70	447.70	447.30
3742481.29	457.00	455.50	455.00	453.90	452.70	450.20	449.30	447.90	447.30
3742413.49	457.60	456.50	455.80	454.70	453.00	450.80	449.60	448.40	447.50
3742345.69	458.50	457.40	456.30	454.90	453.20	451.40	450.00	449.00	448.10
3742277.89	459.60	458.30	457.00	455.30	453.50	452.50	450.40	449.60	448.60
3742210.09	460.50	459.00	457.90	456.40	454.20	453.50	451.10	450.00	448.80
3742142.29	461.40	459.90	458.20	456.70	455.00	454.30	451.40	450.00	448.80
3742074.49	462.20	460.30	458.60	457.20	455.10	454.40	451.30	449.70	448.70
3742006.69	462.70	460.60	458.70	457.00	455.40	454.40	451.50	450.00	449.10
3741938.89	462.70	460.60	458.70	457.00	455.60	454.00	451.90	450.40	449.10
3741871.09	462.40	460.50	458.60	457.30	455.70	453.80	452.40	450.70	449.30
3741803.29	462.80	460.80	458.50	456.80	455.10	454.30	452.60	450.90	449.50
3741735.49	463.10	461.00	459.30	457.50	456.20	454.70	452.90	450.60	448.90
3741667.69	464.00	461.50	459.90	458.10	456.60	455.10	452.80	450.70	448.80
3741599.89	465.20	462.70	460.40	458.20	456.20	454.50	452.90	451.20	448.80
3741532.09	467.00	463.20	460.90	458.10	456.50	455.60	452.90	451.60	448.90
3741464.29	468.50	464.20	461.40	459.00	456.40	454.90	452.90	451.40	449.20
3741396.49	468.40	464.60	462.10	459.50	456.90	454.70	453.30	451.40	449.90
3741328.69	469.20	465.40	462.60	460.00	457.40	455.00	453.40	451.70	450.50
3741260.89	470.10	466.10	462.50	459.80	458.00	456.10	453.70	452.30	450.50
3741193.09	471.10	467.00	460.90	459.20	458.70	457.30	455.00	453.60	450.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
 PAGE 17

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	478105.94	478187.24	478268.54	X-COORD (METERS)					
3742549.09	446.60	445.80	445.20						
3742481.29	446.40	445.70	445.20						
3742413.49	446.60	445.70	445.30						
3742345.69	447.10	446.30	445.50						
3742277.89	447.50	447.00	445.70						
3742210.09	447.80	447.00	445.90						
3742142.29	447.70	446.80	445.90						
3742074.49	447.70	446.70	446.00						
3742006.69	447.90	446.80	445.90						
3741938.89	447.90	446.90	445.80						
3741871.09	447.90	446.70	445.80						
3741803.29	447.90	446.70	445.70						
3741735.49	447.50	446.50	445.50						
3741667.69	447.30	446.00	445.10						
3741599.89	447.20	446.00	445.00						
3741532.09	447.30	446.10	445.00						
3741464.29	447.50	446.30	445.30						
3741396.49	447.80	446.60	445.60						
3741328.69	448.00	446.80	445.90						
3741260.89	448.50	447.10	446.00						
3741193.09	449.30	447.40	446.20						

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*
 *** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***
 * HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	560.70	558.10	504.00	504.00	468.20	465.00	462.40	460.00	458.40
3742481.29	560.70	560.70	560.70	537.20	504.00	465.20	462.90	461.00	458.90
3742413.49	561.60	560.70	560.70	560.70	558.10	504.00	463.50	461.90	459.50
3742345.69	560.70	504.00	588.60	588.60	587.10	504.00	464.60	462.60	460.30
3742277.89	560.70	558.10	589.20	589.20	588.60	588.60	586.90	463.30	460.80
3742210.09	588.60	589.20	602.50	602.50	600.30	588.60	588.60	586.90	461.80
3742142.29	602.50	602.50	602.50	602.50	602.50	602.50	589.20	588.60	463.10
3742074.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	588.60	588.60
3742006.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	588.60
3741938.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741871.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741803.29	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50

3741735.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741667.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741599.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741532.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741464.29	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741396.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741328.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741260.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741193.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***   01/19/22
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year ***   17:01:50
                                                                                                     PAGE 19

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*** MODELOPTs:   RegDEFAULT   CONC   ELEV   URBAN   ADJ_U*

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

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* HILL HEIGHT SCALES IN METERS *

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Y-COORD (METERS)	X-COORD (METERS)								
	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	458.30	459.60	460.90	459.60	454.20	454.00	450.70	447.70	447.30
3742481.29	457.00	455.50	455.00	462.30	452.70	450.20	449.30	447.90	447.30
3742413.49	457.60	456.50	455.80	454.70	453.00	450.80	449.60	448.40	447.50
3742345.69	458.50	457.40	456.30	454.90	453.20	451.40	450.00	449.00	448.10
3742277.89	459.60	458.30	457.00	455.30	453.50	452.50	450.40	449.60	448.60
3742210.09	460.50	459.00	457.90	456.40	454.20	453.50	451.10	450.00	448.80
3742142.29	461.40	459.90	458.20	456.70	455.00	454.30	451.40	450.00	448.80
3742074.49	462.20	460.30	458.60	457.20	455.10	454.40	451.30	449.70	448.70
3742006.69	462.70	460.60	458.70	457.00	455.40	454.40	451.50	450.00	449.10
3741938.89	588.60	460.60	458.70	457.00	455.60	454.00	451.90	450.40	449.10
3741871.09	600.30	586.90	458.60	457.30	455.70	453.80	452.40	450.70	449.30
3741803.29	602.50	588.60	458.50	456.80	455.10	454.30	452.60	450.90	449.50
3741735.49	602.50	601.00	459.30	457.50	456.20	454.70	452.90	450.60	448.90
3741667.69	602.50	602.50	459.90	458.10	456.60	455.10	452.80	450.70	448.80
3741599.89	602.50	602.50	590.30	458.20	456.20	454.50	452.90	451.20	448.80
3741532.09	602.50	602.50	590.60	590.30	456.50	455.60	452.90	451.60	448.90
3741464.29	602.50	602.50	601.00	590.30	568.30	567.60	452.90	451.40	449.20
3741396.49	602.50	602.50	602.50	590.60	590.30	568.30	453.30	451.40	449.90
3741328.69	602.50	602.50	602.50	590.60	590.30	568.30	568.10	451.70	450.50
3741260.89	602.50	602.50	602.50	590.60	590.60	568.30	568.30	567.60	450.50
3741193.09	602.50	602.50	602.50	590.60	590.60	568.30	568.30	568.10	450.60

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***   01/19/22
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year ***   17:01:50
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*** MODELOPTs:   RegDEFAULT   CONC   ELEV   URBAN   ADJ_U*

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

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* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	478105.94	478187.24	478268.54
3742549.09	446.60	445.80	445.20
3742481.29	446.40	445.70	445.20
3742413.49	446.60	445.70	445.30
3742345.69	447.10	446.30	445.50
3742277.89	447.50	447.00	445.70
3742210.09	447.80	447.00	445.90
3742142.29	447.70	446.80	445.90
3742074.49	447.70	446.70	446.00
3742006.69	447.90	446.80	445.90
3741938.89	447.90	446.90	445.80
3741871.09	447.90	446.70	445.80
3741803.29	447.90	446.70	445.70
3741735.49	447.50	446.50	445.50
3741667.69	447.30	446.00	445.10
3741599.89	447.20	446.00	445.00
3741532.09	447.30	446.10	445.00
3741464.29	447.50	446.30	445.30
3741396.49	447.80	446.60	445.60
3741328.69	448.00	446.80	445.90
3741260.89	448.50	447.10	446.00
3741193.09	449.30	447.40	446.20

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(476872.2, 3741997.1,	477.6,	602.5,	0.0);	(476865.3, 3741816.7,	482.0,	602.5,	0.0);
(476897.4, 3741739.0,	483.7,	602.5,	0.0);	(477215.8, 3741722.3,	466.9,	602.5,	0.0);
(477402.7, 3741652.7,	463.5,	602.5,	0.0);	(477414.3, 3741347.9,	467.2,	602.5,	0.0);
(478215.2, 3741801.1,	446.3,	446.3,	0.0);	(478097.3, 3742191.0,	448.0,	448.0,	0.0);

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDEFAULT 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

Year: 2010

Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	HO	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5			
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5			
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5			
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5			
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5			
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5			
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5			
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5			
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5			
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5			
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5			
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5			
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5			
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5			
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5			
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5			
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5			
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5			
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5			
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5			
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30	318.	9.1	284.9	5.5			
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	196.	9.1	283.1	5.5			
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	330.	9.1	281.4	5.5			
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	332.	9.1	280.9	5.5			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00

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

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003339 , L0003340 , L0003341 , L0003342 , L0003343 ,
 L0003344 , L0003345 , L0003346 , L0003347 , L0003348 , L0003349 , L0003350 , L0003351 ,
 L0003352 , L0003353 , L0003354 , L0003355 , L0003356 , L0003357 , L0003358 , L0003359 ,
 L0003360 , L0003361 , L0003362 , L0003363 , L0003364 , L0003365 , L0003366 , . . . ,

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

		** CONC OF DPM			IN MICROGRAMS/M**3			**		
Y-COORD (METERS)					X-COORD (METERS)					
	476642.54	476723.84	476805.14		476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	0.00021	0.00025	0.00029	0.00034	0.00038	0.00043	0.00050	0.00066	0.00069	
3742481.29	0.00021	0.00025	0.00030	0.00036	0.00042	0.00049	0.00059	0.00088	0.00096	
3742413.49	0.00021	0.00025	0.00031	0.00038	0.00046	0.00056	0.00068	0.00102	0.00113	
3742345.69	0.00020	0.00022	0.00033	0.00041	0.00051	0.00063	0.00079	0.00117	0.00131	
3742277.89	0.00018	0.00023	0.00034	0.00043	0.00055	0.00071	0.00092	0.00136	0.00156	
3742210.09	0.00019	0.00025	0.00034	0.00044	0.00058	0.00078	0.00107	0.00160	0.00193	
3742142.29	0.00021	0.00027	0.00035	0.00046	0.00061	0.00086	0.00123	0.00188	0.00249	
3742074.49	0.00020	0.00027	0.00036	0.00047	0.00064	0.00094	0.00139	0.00218	0.00365	
3742006.69	0.00021	0.00027	0.00035	0.00048	0.00067	0.00102	0.00159	0.00266	0.00474	
3741938.89	0.00021	0.00026	0.00035	0.00047	0.00067	0.00103	0.00172	0.00344	0.00837	
3741871.09	0.00020	0.00026	0.00034	0.00046	0.00065	0.00101	0.00168	0.00348	0.01206	
3741803.29	0.00020	0.00025	0.00033	0.00043	0.00060	0.00097	0.00158	0.00289	0.00597	
3741735.49	0.00019	0.00023	0.00030	0.00040	0.00057	0.00088	0.00143	0.00250	0.00463	
3741667.69	0.00017	0.00021	0.00026	0.00032	0.00051	0.00080	0.00122	0.00192	0.00314	
3741599.89	0.00015	0.00017	0.00019	0.00024	0.00044	0.00067	0.00100	0.00143	0.00212	
3741532.09	0.00014	0.00013	0.00016	0.00022	0.00039	0.00054	0.00079	0.00108	0.00150	
3741464.29	0.00011	0.00012	0.00017	0.00024	0.00033	0.00044	0.00063	0.00083	0.00113	
3741396.49	0.00011	0.00012	0.00017	0.00022	0.00029	0.00037	0.00051	0.00066	0.00089	
3741328.69	0.00010	0.00013	0.00016	0.00019	0.00027	0.00034	0.00043	0.00054	0.00074	
3741260.89	0.00010	0.00012	0.00015	0.00019	0.00024	0.00029	0.00037	0.00048	0.00062	
3741193.09	0.00010	0.00012	0.00014	0.00017	0.00021	0.00025	0.00032	0.00041	0.00052	

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
 PAGE 26

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003339 , L0003340 , L0003341 , L0003342 , L0003343 ,
 L0003344 , L0003345 , L0003346 , L0003347 , L0003348 , L0003349 , L0003350 , L0003351 ,
 L0003352 , L0003353 , L0003354 , L0003355 , L0003356 , L0003357 , L0003358 , L0003359 ,
 L0003360 , L0003361 , L0003362 , L0003363 , L0003364 , L0003365 , L0003366 , . . .

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

		** CONC OF DPM			IN MICROGRAMS/M**3			**		
Y-COORD (METERS)					X-COORD (METERS)					
	477374.24	477455.54	477536.84		477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	0.00051	0.00046	0.00042	0.00038	0.00034	0.00031	0.00027	0.00025	0.00022	
3742481.29	0.00061	0.00053	0.00047	0.00042	0.00038	0.00034	0.00030	0.00027	0.00024	
3742413.49	0.00073	0.00062	0.00055	0.00049	0.00043	0.00037	0.00033	0.00029	0.00025	
3742345.69	0.00089	0.00074	0.00064	0.00056	0.00048	0.00042	0.00036	0.00031	0.00027	

3742277.89	0.00111	0.00089	0.00076	0.00065	0.00055	0.00047	0.00039	0.00034	0.00029
3742210.09	0.00145	0.00111	0.00093	0.00077	0.00063	0.00052	0.00043	0.00036	0.00031
3742142.29	0.00201	0.00143	0.00114	0.00091	0.00073	0.00059	0.00047	0.00039	0.00033
3742074.49	0.00299	0.00193	0.00145	0.00110	0.00083	0.00065	0.00051	0.00042	0.00035
3742006.69	0.00476	0.00276	0.00188	0.00131	0.00095	0.00071	0.00055	0.00044	0.00036
3741938.89	0.00849	0.00439	0.00247	0.00155	0.00106	0.00077	0.00058	0.00046	0.00037
3741871.09	0.01274	0.00802	0.00321	0.00179	0.00115	0.00081	0.00061	0.00048	0.00038
3741803.29	0.00826	0.00941	0.00396	0.00192	0.00120	0.00084	0.00062	0.00049	0.00039
3741735.49	0.00758	0.00781	0.00456	0.00200	0.00123	0.00085	0.00063	0.00049	0.00039
3741667.69	0.00467	0.00495	0.00423	0.00201	0.00123	0.00085	0.00063	0.00048	0.00039
3741599.89	0.00294	0.00334	0.00353	0.00187	0.00120	0.00083	0.00062	0.00048	0.00038
3741532.09	0.00202	0.00242	0.00292	0.00165	0.00114	0.00082	0.00061	0.00047	0.00038
3741464.29	0.00149	0.00185	0.00247	0.00143	0.00104	0.00077	0.00059	0.00046	0.00037
3741396.49	0.00118	0.00148	0.00214	0.00122	0.00094	0.00072	0.00057	0.00045	0.00037
3741328.69	0.00095	0.00122	0.00189	0.00105	0.00083	0.00067	0.00054	0.00043	0.00036
3741260.89	0.00078	0.00101	0.00163	0.00089	0.00073	0.00061	0.00050	0.00042	0.00035
3741193.09	0.00064	0.00080	0.00110	0.00074	0.00064	0.00055	0.00047	0.00040	0.00033

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year *** 17:01:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003339 , L0003340 , L0003341 , L0003342 , L0003343 ,
 L0003344 , L0003345 , L0003346 , L0003347 , L0003348 , L0003349 , L0003350 , L0003351 ,
 L0003352 , L0003353 , L0003354 , L0003355 , L0003356 , L0003357 , L0003358 , L0003359 ,
 L0003360 , L0003361 , L0003362 , L0003363 , L0003364 , L0003365 , L0003366 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	478105.94	478187.24	478268.54

3742549.09	0.00020	0.00018	0.00016
3742481.29	0.00021	0.00019	0.00017
3742413.49	0.00023	0.00020	0.00018
3742345.69	0.00024	0.00021	0.00019
3742277.89	0.00025	0.00022	0.00020
3742210.09	0.00027	0.00023	0.00020
3742142.29	0.00028	0.00024	0.00021
3742074.49	0.00029	0.00025	0.00022
3742006.69	0.00030	0.00026	0.00022
3741938.89	0.00031	0.00026	0.00023
3741871.09	0.00032	0.00027	0.00023
3741803.29	0.00032	0.00027	0.00023
3741735.49	0.00032	0.00027	0.00023
3741667.69	0.00032	0.00027	0.00023

3741599.89	0.00032	0.00027	0.00023
3741532.09	0.00031	0.00027	0.00023
3741464.29	0.00031	0.00026	0.00023
3741396.49	0.00030	0.00026	0.00022
3741328.69	0.00030	0.00025	0.00022
3741260.89	0.00029	0.00025	0.00021
3741193.09	0.00028	0.00024	0.00021

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***   01/19/22
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year ***   17:01:50
                                                                                                     PAGE 28

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*** MODELOPTs:   RegDEFAULT   CONC   ELEV   URBAN   ADJ_U*
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*** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: ALL   ***
      INCLUDING SOURCE(S):   L0003339   ,   L0003340   ,   L0003341   ,   L0003342   ,   L0003343   ,
L0003344   ,   L0003345   ,   L0003346   ,   L0003347   ,   L0003348   ,   L0003349   ,   L0003350   ,   L0003351   ,
L0003352   ,   L0003353   ,   L0003354   ,   L0003355   ,   L0003356   ,   L0003357   ,   L0003358   ,   L0003359   ,
L0003360   ,   L0003361   ,   L0003362   ,   L0003363   ,   L0003364   ,   L0003365   ,   L0003366   ,   . . .

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*** 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	X-COORD (M)	Y-COORD (M)	CONC
476872.25	3741997.10	0.00045	476865.27	3741816.71	0.00041			
476897.42	3741739.01	0.00042	477215.84	3741722.29	0.00245			
477402.74	3741652.72	0.00435	477414.30	3741347.94	0.00113			
478215.16	3741801.12	0.00026	478097.30	3742191.01	0.00028			

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***   01/19/22
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year ***   17:01:50
                                                                                                     PAGE 29

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*** MODELOPTs:   RegDEFAULT   CONC   ELEV   URBAN   ADJ_U*
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*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF DPM			IN MICROGRAMS/M**3			**		
GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID				
ALL	1ST HIGHEST VALUE IS	0.01274 AT (477374.24, 3741871.09, 462.40, 600.30, 0.00)	GC	UCART1				
	2ND HIGHEST VALUE IS	0.01206 AT (477292.94, 3741871.09, 464.70, 602.50, 0.00)	GC	UCART1				
	3RD HIGHEST VALUE IS	0.00941 AT (477455.54, 3741803.29, 460.80, 588.60, 0.00)	GC	UCART1				
	4TH HIGHEST VALUE IS	0.00849 AT (477374.24, 3741938.89, 462.70, 588.60, 0.00)	GC	UCART1				
	5TH HIGHEST VALUE IS	0.00837 AT (477292.94, 3741938.89, 464.60, 602.50, 0.00)	GC	UCART1				
	6TH HIGHEST VALUE IS	0.00826 AT (477374.24, 3741803.29, 462.80, 602.50, 0.00)	GC	UCART1				
	7TH HIGHEST VALUE IS	0.00802 AT (477455.54, 3741871.09, 460.50, 586.90, 0.00)	GC	UCART1				

8TH HIGHEST VALUE IS 0.00781 AT (477455.54, 3741735.49, 461.00, 601.00, 0.00) GC UCART1
9TH HIGHEST VALUE IS 0.00758 AT (477374.24, 3741735.49, 463.10, 602.50, 0.00) GC UCART1
10TH HIGHEST VALUE IS 0.00597 AT (477292.94, 3741803.29, 464.90, 602.50, 0.00) GC UCART1

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

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 1st Year ***

01/19/22
17:01:50
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*** 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 8 Warning Message(s)
A Total of 2028 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 978 Calm Hours Identified

A Total of 1050 Missing Hours Identified (2.40 Percent)

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

***** WARNING MESSAGES *****
SO W320 633 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 634 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 635 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 636 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 804 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 804 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 14010101
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 2 year gap

*** AERMOD Finishes Successfully ***

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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 1/19/2022
** File: C:\Lakes\19365 Harvill Trailer Storage Yd - 2 yr\19365 Harvill Trailer Storage Yd - 2 yr.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Harvill revised with new site plan
TITLETWO DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 2189641 Riverside_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19365 Harvill Trailer Storage Yd - 2 yr.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 Onsite truck travel
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0000176
** Elevated
** Building Height = 8.15
** SZINIT = 3.79
** Nodes = 21
** 477330.574, 3741786.592, 463.59, 3.66, 4.00
** 477329.931, 3741871.510, 463.44, 3.66, 4.00

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** 477325.856, 3741876.871, 463.31, 3.66, 4.00
 ** 477274.820, 3741876.442, 465.55, 3.66, 4.00
 ** 477267.958, 3741880.516, 465.54, 3.66, 4.00
 ** 477267.958, 3741938.200, 465.52, 3.66, 4.00
 ** 477271.175, 3741942.275, 465.40, 3.66, 4.00
 ** 477278.037, 3741943.776, 464.94, 3.66, 4.00
 ** 477285.756, 3741943.132, 464.77, 3.66, 4.00
 ** 477293.047, 3741940.130, 464.69, 3.66, 4.00
 ** 477406.485, 3741853.497, 461.57, 3.66, 4.00
 ** 477409.916, 3741852.425, 461.54, 3.66, 4.00
 ** 477437.579, 3741851.353, 460.94, 3.66, 4.00
 ** 477440.581, 3741850.066, 460.92, 3.66, 4.00
 ** 477442.296, 3741847.064, 460.94, 3.66, 4.00
 ** 477443.583, 3741837.629, 460.93, 3.66, 4.00
 ** 477443.154, 3741827.336, 460.98, 3.66, 4.00
 ** 477443.154, 3741809.966, 461.14, 3.66, 4.00
 ** 477442.082, 3741801.818, 461.14, 3.66, 4.00
 ** 477439.938, 3741795.813, 461.12, 3.66, 4.00
 ** 477439.938, 3741786.807, 461.10, 3.66, 4.00

** -----

LOCATION L0003598	VOLUME	477330.541	3741790.888	463.78
LOCATION L0003599	VOLUME	477330.476	3741799.478	463.86
LOCATION L0003600	VOLUME	477330.411	3741808.069	463.94
LOCATION L0003601	VOLUME	477330.346	3741816.659	463.93
LOCATION L0003602	VOLUME	477330.281	3741825.250	463.90
LOCATION L0003603	VOLUME	477330.216	3741833.840	463.87
LOCATION L0003604	VOLUME	477330.151	3741842.431	463.83
LOCATION L0003605	VOLUME	477330.086	3741851.022	463.76
LOCATION L0003606	VOLUME	477330.021	3741859.612	463.68
LOCATION L0003607	VOLUME	477329.956	3741868.203	463.60
LOCATION L0003608	VOLUME	477326.734	3741875.716	463.66
LOCATION L0003609	VOLUME	477318.716	3741876.811	463.91
LOCATION L0003610	VOLUME	477310.125	3741876.739	464.17
LOCATION L0003611	VOLUME	477301.535	3741876.667	464.41
LOCATION L0003612	VOLUME	477292.944	3741876.594	464.65
LOCATION L0003613	VOLUME	477284.354	3741876.522	464.89
LOCATION L0003614	VOLUME	477275.763	3741876.450	465.13
LOCATION L0003615	VOLUME	477268.244	3741880.346	465.33
LOCATION L0003616	VOLUME	477267.958	3741888.774	465.28
LOCATION L0003617	VOLUME	477267.958	3741897.365	465.23
LOCATION L0003618	VOLUME	477267.958	3741905.956	465.23
LOCATION L0003619	VOLUME	477267.958	3741914.547	465.28
LOCATION L0003620	VOLUME	477267.958	3741923.137	465.34
LOCATION L0003621	VOLUME	477267.958	3741931.728	465.39
LOCATION L0003622	VOLUME	477269.271	3741939.863	465.35
LOCATION L0003623	VOLUME	477276.565	3741943.454	465.13
LOCATION L0003624	VOLUME	477285.097	3741943.187	464.87
LOCATION L0003625	VOLUME	477293.083	3741940.103	464.62
LOCATION L0003626	VOLUME	477299.910	3741934.889	464.40
LOCATION L0003627	VOLUME	477306.737	3741929.675	464.18
LOCATION L0003628	VOLUME	477313.565	3741924.461	463.97

LOCATION	VOLUME				
L0003629	477320.392	3741919.247	463.80		
L0003630	477327.220	3741914.033	463.62		
L0003631	477334.047	3741908.818	463.42		
L0003632	477340.875	3741903.604	463.21		
L0003633	477347.702	3741898.390	463.03		
L0003634	477354.530	3741893.176	462.85		
L0003635	477361.357	3741887.962	462.67		
L0003636	477368.185	3741882.748	462.51		
L0003637	477375.012	3741877.533	462.36		
L0003638	477381.840	3741872.319	462.20		
L0003639	477388.667	3741867.105	462.06		
L0003640	477395.494	3741861.891	461.94		
L0003641	477402.322	3741856.677	461.82		
L0003642	477409.685	3741852.497	461.66		
L0003643	477418.258	3741852.102	461.46		
L0003644	477426.843	3741851.769	461.27		
L0003645	477435.427	3741851.436	461.07		
L0003646	477442.154	3741847.313	460.92		
L0003647	477443.418	3741838.836	460.90		
L0003648	477443.276	3741830.263	460.97		
L0003649	477443.154	3741821.674	461.03		
L0003650	477443.154	3741813.083	461.08		
L0003651	477442.440	3741804.539	461.12		
L0003652	477440.116	3741796.313	461.16		
L0003653	477439.938	3741787.753	461.14		

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Offsite - Orange Avenue to Harvill Ave

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 2.63E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 2

** 477329.923, 3741778.717, 463.57, 3.66, 4.00

** 477515.846, 3741778.073, 459.43, 3.66, 4.00

** -----

L0003710	477334.218	3741778.702	463.57		
L0003711	477342.809	3741778.672	463.35		
L0003712	477351.400	3741778.642	463.14		
L0003713	477359.991	3741778.613	462.93		
L0003714	477368.581	3741778.583	462.74		
L0003715	477377.172	3741778.553	462.56		
L0003716	477385.763	3741778.523	462.38		
L0003717	477394.354	3741778.494	462.19		
L0003718	477402.944	3741778.464	461.99		
L0003719	477411.535	3741778.434	461.80		

LOCATION	VOLUME				
LOCATION L0003720	VOLUME	477420.126	3741778.405	461.60	
LOCATION L0003721	VOLUME	477428.717	3741778.375	461.39	
LOCATION L0003722	VOLUME	477437.307	3741778.345	461.18	
LOCATION L0003723	VOLUME	477445.898	3741778.315	460.98	
LOCATION L0003724	VOLUME	477454.489	3741778.286	460.80	
LOCATION L0003725	VOLUME	477463.080	3741778.256	460.61	
LOCATION L0003726	VOLUME	477471.670	3741778.226	460.45	
LOCATION L0003727	VOLUME	477480.261	3741778.196	460.33	
LOCATION L0003728	VOLUME	477488.852	3741778.167	460.21	
LOCATION L0003729	VOLUME	477497.443	3741778.137	460.03	
LOCATION L0003730	VOLUME	477506.033	3741778.107	459.79	
LOCATION L0003731	VOLUME	477514.624	3741778.078	459.55	

** End of LINE VOLUME Source ID = SLINE2

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Off-site - Harvill Ave south of Orange Ave

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 4.07E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 6

** 477516.848, 3741771.107, 459.44, 3.66, 4.00

** 477519.765, 3741749.232, 459.67, 3.66, 4.00

** 477519.218, 3741712.774, 459.81, 3.66, 4.00

** 477520.592, 3741591.131, 461.14, 3.66, 4.00

** 477518.826, 3741215.954, 463.62, 3.66, 4.00

** 477520.592, 3741196.022, 463.90, 3.66, 4.00

LOCATION L0003754	VOLUME	477517.416	3741766.849	459.55	
LOCATION L0003755	VOLUME	477518.552	3741758.334	459.59	
LOCATION L0003756	VOLUME	477519.687	3741749.818	459.63	
LOCATION L0003757	VOLUME	477519.645	3741741.234	459.67	
LOCATION L0003758	VOLUME	477519.516	3741732.644	459.71	
LOCATION L0003759	VOLUME	477519.387	3741724.054	459.76	
LOCATION L0003760	VOLUME	477519.259	3741715.464	459.80	
LOCATION L0003761	VOLUME	477519.285	3741706.874	459.89	
LOCATION L0003762	VOLUME	477519.382	3741698.284	459.97	
LOCATION L0003763	VOLUME	477519.479	3741689.694	460.05	
LOCATION L0003764	VOLUME	477519.576	3741681.103	460.14	
LOCATION L0003765	VOLUME	477519.673	3741672.513	460.24	
LOCATION L0003766	VOLUME	477519.770	3741663.923	460.34	
LOCATION L0003767	VOLUME	477519.867	3741655.333	460.44	
LOCATION L0003768	VOLUME	477519.964	3741646.742	460.54	
LOCATION L0003769	VOLUME	477520.061	3741638.152	460.63	
LOCATION L0003770	VOLUME	477520.158	3741629.562	460.72	
LOCATION L0003771	VOLUME	477520.255	3741620.972	460.81	
LOCATION L0003772	VOLUME	477520.352	3741612.381	460.89	

LOCATION	L0003773	VOLUME	477520.449	3741603.791	460.97
LOCATION	L0003774	VOLUME	477520.546	3741595.201	461.05
LOCATION	L0003775	VOLUME	477520.571	3741586.610	461.13
LOCATION	L0003776	VOLUME	477520.530	3741578.020	461.21
LOCATION	L0003777	VOLUME	477520.490	3741569.429	461.28
LOCATION	L0003778	VOLUME	477520.450	3741560.838	461.36
LOCATION	L0003779	VOLUME	477520.409	3741552.247	461.44
LOCATION	L0003780	VOLUME	477520.369	3741543.657	461.52
LOCATION	L0003781	VOLUME	477520.328	3741535.066	461.60
LOCATION	L0003782	VOLUME	477520.288	3741526.475	461.67
LOCATION	L0003783	VOLUME	477520.247	3741517.885	461.75
LOCATION	L0003784	VOLUME	477520.207	3741509.294	461.83
LOCATION	L0003785	VOLUME	477520.166	3741500.703	461.90
LOCATION	L0003786	VOLUME	477520.126	3741492.113	461.97
LOCATION	L0003787	VOLUME	477520.086	3741483.522	462.05
LOCATION	L0003788	VOLUME	477520.045	3741474.931	462.12
LOCATION	L0003789	VOLUME	477520.005	3741466.340	462.19
LOCATION	L0003790	VOLUME	477519.964	3741457.750	462.26
LOCATION	L0003791	VOLUME	477519.924	3741449.159	462.34
LOCATION	L0003792	VOLUME	477519.883	3741440.568	462.41
LOCATION	L0003793	VOLUME	477519.843	3741431.978	462.50
LOCATION	L0003794	VOLUME	477519.803	3741423.387	462.60
LOCATION	L0003795	VOLUME	477519.762	3741414.796	462.70
LOCATION	L0003796	VOLUME	477519.722	3741406.205	462.80
LOCATION	L0003797	VOLUME	477519.681	3741397.615	462.89
LOCATION	L0003798	VOLUME	477519.641	3741389.024	462.99
LOCATION	L0003799	VOLUME	477519.600	3741380.433	463.08
LOCATION	L0003800	VOLUME	477519.560	3741371.843	463.15
LOCATION	L0003801	VOLUME	477519.519	3741363.252	463.21
LOCATION	L0003802	VOLUME	477519.479	3741354.661	463.26
LOCATION	L0003803	VOLUME	477519.439	3741346.071	463.32
LOCATION	L0003804	VOLUME	477519.398	3741337.480	463.40
LOCATION	L0003805	VOLUME	477519.358	3741328.889	463.48
LOCATION	L0003806	VOLUME	477519.317	3741320.298	463.56
LOCATION	L0003807	VOLUME	477519.277	3741311.708	463.65
LOCATION	L0003808	VOLUME	477519.236	3741303.117	463.75
LOCATION	L0003809	VOLUME	477519.196	3741294.526	463.85
LOCATION	L0003810	VOLUME	477519.155	3741285.936	463.95
LOCATION	L0003811	VOLUME	477519.115	3741277.345	463.95
LOCATION	L0003812	VOLUME	477519.075	3741268.754	463.95
LOCATION	L0003813	VOLUME	477519.034	3741260.163	463.95
LOCATION	L0003814	VOLUME	477518.994	3741251.573	463.92
LOCATION	L0003815	VOLUME	477518.953	3741242.982	463.81
LOCATION	L0003816	VOLUME	477518.913	3741234.391	463.71
LOCATION	L0003817	VOLUME	477518.872	3741225.801	463.61
LOCATION	L0003818	VOLUME	477518.832	3741217.210	463.63
LOCATION	L0003819	VOLUME	477519.473	3741208.648	463.59
LOCATION	L0003820	VOLUME	477520.232	3741200.091	463.53

** End of LINE VOLUME Source ID = SLINE3

**

** Line Source Represented by Adjacent Volume Sources

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** LINE VOLUME Source ID = SLINE4
** DESCRSRC Off-site - Harvill Avenue north of Orange Avenue
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 6.07E-06
** Elevated
** Vertical Dimension = 7.00
** SZINIT = 1.63
** Nodes = 22
** 477254.938, 3742548.264, 459.13, 3.66, 4.00
** 477256.170, 3742178.029, 463.37, 3.66, 4.00
** 477258.225, 3742141.868, 463.98, 3.66, 4.00
** 477260.690, 3742125.432, 464.16, 3.66, 4.00
** 477264.800, 3742109.817, 464.26, 3.66, 4.00
** 477275.483, 3742074.067, 464.82, 3.66, 4.00
** 477290.276, 3742045.303, 464.61, 3.66, 4.00
** 477309.178, 3742014.485, 464.12, 3.66, 4.00
** 477333.011, 3741987.364, 463.67, 3.66, 4.00
** 477343.284, 3741977.913, 463.57, 3.66, 4.00
** 477350.270, 3741971.749, 463.23, 3.66, 4.00
** 477368.761, 3741957.367, 462.88, 3.66, 4.00
** 477394.649, 3741939.698, 462.23, 3.66, 4.00
** 477415.195, 3741925.727, 461.55, 3.66, 4.00
** 477435.740, 3741909.701, 460.87, 3.66, 4.00
** 477448.890, 3741898.606, 460.79, 3.66, 4.00
** 477461.628, 3741884.224, 460.22, 3.66, 4.00
** 477472.312, 3741871.897, 460.19, 3.66, 4.00
** 477480.530, 3741859.980, 459.74, 3.66, 4.00
** 477487.927, 3741846.831, 459.63, 3.66, 4.00
** 477501.487, 3741821.354, 459.45, 3.66, 4.00
** 477514.888, 3741786.059, 459.40, 3.66, 4.00

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LOCATION L0003888    VOLUME  477254.952 3742543.969 459.25
LOCATION L0003889    VOLUME  477254.980 3742535.378 459.31
LOCATION L0003890    VOLUME  477255.009 3742526.787 459.37
LOCATION L0003891    VOLUME  477255.038 3742518.196 459.43
LOCATION L0003892    VOLUME  477255.066 3742509.606 459.52
LOCATION L0003893    VOLUME  477255.095 3742501.015 459.61
LOCATION L0003894    VOLUME  477255.123 3742492.424 459.70
LOCATION L0003895    VOLUME  477255.152 3742483.833 459.80
LOCATION L0003896    VOLUME  477255.181 3742475.243 459.89
LOCATION L0003897    VOLUME  477255.209 3742466.652 459.99
LOCATION L0003898    VOLUME  477255.238 3742458.061 460.08
LOCATION L0003899    VOLUME  477255.266 3742449.470 460.17
LOCATION L0003900    VOLUME  477255.295 3742440.880 460.26
LOCATION L0003901    VOLUME  477255.324 3742432.289 460.34
LOCATION L0003902    VOLUME  477255.352 3742423.698 460.42
LOCATION L0003903    VOLUME  477255.381 3742415.107 460.50
LOCATION L0003904    VOLUME  477255.409 3742406.517 460.57
LOCATION L0003905    VOLUME  477255.438 3742397.926 460.64

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LOCATION	L0003906	VOLUME	477255.467	3742389.335	460.72
LOCATION	L0003907	VOLUME	477255.495	3742380.744	460.80
LOCATION	L0003908	VOLUME	477255.524	3742372.154	460.89
LOCATION	L0003909	VOLUME	477255.553	3742363.563	460.97
LOCATION	L0003910	VOLUME	477255.581	3742354.972	461.07
LOCATION	L0003911	VOLUME	477255.610	3742346.381	461.17
LOCATION	L0003912	VOLUME	477255.638	3742337.791	461.27
LOCATION	L0003913	VOLUME	477255.667	3742329.200	461.36
LOCATION	L0003914	VOLUME	477255.696	3742320.609	461.45
LOCATION	L0003915	VOLUME	477255.724	3742312.018	461.53
LOCATION	L0003916	VOLUME	477255.753	3742303.428	461.61
LOCATION	L0003917	VOLUME	477255.781	3742294.837	461.69
LOCATION	L0003918	VOLUME	477255.810	3742286.246	461.77
LOCATION	L0003919	VOLUME	477255.839	3742277.655	461.85
LOCATION	L0003920	VOLUME	477255.867	3742269.065	461.93
LOCATION	L0003921	VOLUME	477255.896	3742260.474	462.04
LOCATION	L0003922	VOLUME	477255.924	3742251.883	462.15
LOCATION	L0003923	VOLUME	477255.953	3742243.292	462.26
LOCATION	L0003924	VOLUME	477255.982	3742234.702	462.39
LOCATION	L0003925	VOLUME	477256.010	3742226.111	462.54
LOCATION	L0003926	VOLUME	477256.039	3742217.520	462.69
LOCATION	L0003927	VOLUME	477256.067	3742208.929	462.84
LOCATION	L0003928	VOLUME	477256.096	3742200.339	463.04
LOCATION	L0003929	VOLUME	477256.125	3742191.748	463.25
LOCATION	L0003930	VOLUME	477256.153	3742183.157	463.45
LOCATION	L0003931	VOLUME	477256.367	3742174.572	463.62
LOCATION	L0003932	VOLUME	477256.854	3742165.995	463.77
LOCATION	L0003933	VOLUME	477257.341	3742157.418	463.91
LOCATION	L0003934	VOLUME	477257.829	3742148.841	464.05
LOCATION	L0003935	VOLUME	477258.463	3742140.279	464.13
LOCATION	L0003936	VOLUME	477259.738	3742131.783	464.18
LOCATION	L0003937	VOLUME	477261.242	3742123.335	464.21
LOCATION	L0003938	VOLUME	477263.428	3742115.027	464.24
LOCATION	L0003939	VOLUME	477265.717	3742106.748	464.35
LOCATION	L0003940	VOLUME	477268.177	3742098.517	464.44
LOCATION	L0003941	VOLUME	477270.636	3742090.286	464.53
LOCATION	L0003942	VOLUME	477273.096	3742082.055	464.59
LOCATION	L0003943	VOLUME	477275.600	3742073.841	464.63
LOCATION	L0003944	VOLUME	477279.529	3742066.201	464.62
LOCATION	L0003945	VOLUME	477283.458	3742058.562	464.62
LOCATION	L0003946	VOLUME	477287.387	3742050.922	464.59
LOCATION	L0003947	VOLUME	477291.464	3742043.366	464.57
LOCATION	L0003948	VOLUME	477295.956	3742036.043	464.53
LOCATION	L0003949	VOLUME	477300.448	3742028.720	464.48
LOCATION	L0003950	VOLUME	477304.939	3742021.397	464.40
LOCATION	L0003951	VOLUME	477309.497	3742014.122	464.29
LOCATION	L0003952	VOLUME	477315.168	3742007.669	464.17
LOCATION	L0003953	VOLUME	477320.839	3742001.216	464.07
LOCATION	L0003954	VOLUME	477326.510	3741994.763	463.95
LOCATION	L0003955	VOLUME	477332.180	3741988.310	463.79
LOCATION	L0003956	VOLUME	477338.407	3741982.400	463.62

LOCATION	L0003957	VOLUME	477344.757	3741976.614	463.45
LOCATION	L0003958	VOLUME	477351.247	3741970.989	463.28
LOCATION	L0003959	VOLUME	477358.029	3741965.715	463.09
LOCATION	L0003960	VOLUME	477364.810	3741960.441	462.90
LOCATION	L0003961	VOLUME	477371.722	3741955.346	462.74
LOCATION	L0003962	VOLUME	477378.818	3741950.503	462.57
LOCATION	L0003963	VOLUME	477385.913	3741945.660	462.40
LOCATION	L0003964	VOLUME	477393.009	3741940.817	462.22
LOCATION	L0003965	VOLUME	477400.111	3741935.984	462.01
LOCATION	L0003966	VOLUME	477407.215	3741931.153	461.80
LOCATION	L0003967	VOLUME	477414.319	3741926.322	461.61
LOCATION	L0003968	VOLUME	477421.133	3741921.095	461.42
LOCATION	L0003969	VOLUME	477427.907	3741915.811	461.21
LOCATION	L0003970	VOLUME	477434.681	3741910.527	461.01
LOCATION	L0003971	VOLUME	477441.279	3741905.028	460.80
LOCATION	L0003972	VOLUME	477447.845	3741899.488	460.65
LOCATION	L0003973	VOLUME	477453.680	3741893.198	460.53
LOCATION	L0003974	VOLUME	477459.376	3741886.767	460.40
LOCATION	L0003975	VOLUME	477465.030	3741880.300	460.26
LOCATION	L0003976	VOLUME	477470.656	3741873.808	460.12
LOCATION	L0003977	VOLUME	477475.754	3741866.906	460.00
LOCATION	L0003978	VOLUME	477480.617	3741859.826	459.90
LOCATION	L0003979	VOLUME	477484.829	3741852.338	459.80
LOCATION	L0003980	VOLUME	477488.994	3741844.825	459.68
LOCATION	L0003981	VOLUME	477493.031	3741837.242	459.59
LOCATION	L0003982	VOLUME	477497.067	3741829.658	459.54
LOCATION	L0003983	VOLUME	477501.103	3741822.075	459.46
LOCATION	L0003984	VOLUME	477504.247	3741814.086	459.39
LOCATION	L0003985	VOLUME	477507.296	3741806.054	459.34
LOCATION	L0003986	VOLUME	477510.345	3741798.023	459.34
LOCATION	L0003987	VOLUME	477513.394	3741789.992	459.37
**	End of LINE	VOLUME	Source ID =	SLINE4	
LOCATION	STCK1	POINT	477326.040	3741793.170	463.930
**	DESCRSRC	West entrance/exit			
LOCATION	STCK2	POINT	477332.784	3741793.350	463.740
**	DESCRSRC	West entrance/exit			
LOCATION	STCK3	POINT	477435.450	3741790.797	461.260
**	DESCRSRC	West entrance/exit			
LOCATION	STCK4	POINT	477442.927	3741790.615	461.070
**	DESCRSRC	West entrance/exit			
**	Source Parameters	**			
**	LINE	VOLUME	Source ID =	SLINE1	
SRCPARAM	L0003598	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003599	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003600	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003601	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003602	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003603	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003604	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003605	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003606	0.0000003143	3.66	4.00	3.79

SRCPARAM	L0003607	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003608	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003609	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003610	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003611	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003612	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003613	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003614	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003615	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003616	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003617	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003618	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003619	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003620	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003621	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003622	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003623	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003624	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003625	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003626	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003627	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003628	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003629	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003630	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003631	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003632	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003633	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003634	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003635	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003636	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003637	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003638	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003639	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003640	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003641	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003642	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003643	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003644	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003645	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003646	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003647	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003648	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003649	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003650	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003651	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003652	0.0000003143	3.66	4.00	3.79
SRCPARAM	L0003653	0.0000003143	3.66	4.00	3.79

**

** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0003710	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003711	0.0000001195	3.66	4.00	1.63

SRCPARAM	L0003712	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003713	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003714	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003715	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003716	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003717	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003718	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003719	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003720	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003721	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003722	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003723	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003724	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003725	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003726	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003727	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003728	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003729	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003730	0.0000001195	3.66	4.00	1.63
SRCPARAM	L0003731	0.0000001195	3.66	4.00	1.63

**

** -----
 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0003754	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003755	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003756	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003757	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003758	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003759	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003760	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003761	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003762	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003763	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003764	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003765	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003766	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003767	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003768	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003769	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003770	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003771	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003772	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003773	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003774	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003775	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003776	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003777	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003778	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003779	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003780	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003781	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003782	0.00000006075	3.66	4.00	1.63

SRCPARAM	L0003783	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003784	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003785	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003786	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003787	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003788	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003789	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003790	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003791	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003792	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003793	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003794	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003795	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003796	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003797	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003798	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003799	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003800	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003801	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003802	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003803	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003804	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003805	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003806	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003807	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003808	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003809	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003810	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003811	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003812	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003813	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003814	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003815	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003816	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003817	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003818	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003819	0.00000006075	3.66	4.00	1.63
SRCPARAM	L0003820	0.00000006075	3.66	4.00	1.63

**

** -----
 ** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0003888	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003889	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003890	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003891	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003892	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003893	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003894	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003895	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003896	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003897	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003898	0.0000000607	3.66	4.00	1.63

SRCPARAM	L0003950	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003951	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003952	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003953	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003954	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003955	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003956	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003957	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003958	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003959	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003960	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003961	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003962	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003963	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003964	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003965	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003966	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003967	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003968	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003969	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003970	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003971	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003972	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003973	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003974	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003975	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003976	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003977	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003978	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003979	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003980	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003981	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003982	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003983	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003984	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003985	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003986	0.0000000607	3.66	4.00	1.63
SRCPARAM	L0003987	0.0000000607	3.66	4.00	1.63

** -----

SRCPARAM	STCK1	0.000027	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.000027	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.000027	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.000027	3.658	366.000	51.90000	0.100

** Building Downwash **

BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00

BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK3	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK3	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK4	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK4	0.00	0.00	0.00	46.41	44.28	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	-46.11	-51.38
XBADJ	STCK3	-56.53	-62.09	-64.16	-61.59	-58.75	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	13.72	16.23
XBADJ	STCK3	16.79	14.73	13.81	15.18	14.47	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	-53.21	-57.95
XBADJ	STCK4	-62.38	-67.04	-68.07	-64.32	-60.24	0.00

XBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	20.81	22.80
XBADJ	STCK4	0.00	0.00	0.00	17.91	15.95	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	25.00	19.43
YBADJ	STCK3	13.26	6.69	-0.08	-6.85	-13.41	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	-25.00	-19.43
YBADJ	STCK3	-13.26	-6.69	0.08	6.85	13.41	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	22.62	15.85
YBADJ	STCK4	8.60	1.09	-6.46	-13.81	-20.74	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	-22.62	-15.85
YBADJ	STCK4	0.00	0.00	0.00	13.81	20.74	0.00

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19365 Harvill Trailer Storage Yd - 2 yr.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC"
PROFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL"
SURFDATA 3171 2010
UAIRDATA 3190 2010
SITEDATA 99999 2010
PROFBASE 442.0 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE PERIOD ALL "19365 HARVILL TRAILER STORAGE YD - 2 YR.AD\PE00GALL.PLT" 31

SUMMFILE "19365 Harvill Trailer Storage Yd - 2 yr.sum"

OU FINISHED

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

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

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

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

***** WARNING MESSAGES *****

SO W320	651	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	652	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	653	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
SO W320	654	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
ME W186	822	MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used	0.50
ME W187	822	MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET	

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 21112 *** ** Harvill revised with new site plan ***
*** AERMET - VERSION 16216 *** ** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 ***

01/19/22
17:34:44
PAGE 1

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 249 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

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

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 249 Source(s); 1 Source Group(s); and 449 Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 245 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) = 442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

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

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

**Detailed Error/Message File: 19365 Harvill Trailer Storage Yd - 2 yr.err
 **File for Summary of Results: 19365 Harvill Trailer Storage Yd - 2 yr.sum

*** AERMOD - VERSION 21112 *** ** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** ** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
 PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.27000E-04	477326.0	3741793.2	463.9	3.66	366.00	51.90	0.10	NO	YES	NO	
STCK2	0	0.27000E-04	477332.8	3741793.3	463.7	3.66	366.00	51.90	0.10	NO	YES	NO	
STCK3	0	0.27000E-04	477435.5	3741790.8	461.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.27000E-04	477442.9	3741790.6	461.1	3.66	366.00	51.90	0.10	YES	YES	NO	

*** AERMOD - VERSION 21112 *** ** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** ** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
 PAGE 3

*** 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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L0003598	0	0.31430E-06	477330.5	3741790.9	463.8	3.66	4.00	3.79	YES
L0003599	0	0.31430E-06	477330.5	3741799.5	463.9	3.66	4.00	3.79	YES
L0003600	0	0.31430E-06	477330.4	3741808.1	463.9	3.66	4.00	3.79	YES
L0003601	0	0.31430E-06	477330.3	3741816.7	463.9	3.66	4.00	3.79	YES
L0003602	0	0.31430E-06	477330.3	3741825.2	463.9	3.66	4.00	3.79	YES
L0003603	0	0.31430E-06	477330.2	3741833.8	463.9	3.66	4.00	3.79	YES
L0003604	0	0.31430E-06	477330.2	3741842.4	463.8	3.66	4.00	3.79	YES
L0003605	0	0.31430E-06	477330.1	3741851.0	463.8	3.66	4.00	3.79	YES
L0003606	0	0.31430E-06	477330.0	3741859.6	463.7	3.66	4.00	3.79	YES
L0003607	0	0.31430E-06	477330.0	3741868.2	463.6	3.66	4.00	3.79	YES
L0003608	0	0.31430E-06	477326.7	3741875.7	463.7	3.66	4.00	3.79	YES
L0003609	0	0.31430E-06	477318.7	3741876.8	463.9	3.66	4.00	3.79	YES
L0003610	0	0.31430E-06	477310.1	3741876.7	464.2	3.66	4.00	3.79	YES
L0003611	0	0.31430E-06	477301.5	3741876.7	464.4	3.66	4.00	3.79	YES
L0003612	0	0.31430E-06	477292.9	3741876.6	464.7	3.66	4.00	3.79	YES
L0003613	0	0.31430E-06	477284.4	3741876.5	464.9	3.66	4.00	3.79	YES
L0003614	0	0.31430E-06	477275.8	3741876.4	465.1	3.66	4.00	3.79	YES
L0003615	0	0.31430E-06	477268.2	3741880.3	465.3	3.66	4.00	3.79	YES
L0003616	0	0.31430E-06	477268.0	3741888.8	465.3	3.66	4.00	3.79	YES
L0003617	0	0.31430E-06	477268.0	3741897.4	465.2	3.66	4.00	3.79	YES
L0003618	0	0.31430E-06	477268.0	3741906.0	465.2	3.66	4.00	3.79	YES
L0003619	0	0.31430E-06	477268.0	3741914.5	465.3	3.66	4.00	3.79	YES
L0003620	0	0.31430E-06	477268.0	3741923.1	465.3	3.66	4.00	3.79	YES
L0003621	0	0.31430E-06	477268.0	3741931.7	465.4	3.66	4.00	3.79	YES
L0003622	0	0.31430E-06	477269.3	3741939.9	465.4	3.66	4.00	3.79	YES
L0003623	0	0.31430E-06	477276.6	3741943.5	465.1	3.66	4.00	3.79	YES
L0003624	0	0.31430E-06	477285.1	3741943.2	464.9	3.66	4.00	3.79	YES
L0003625	0	0.31430E-06	477293.1	3741940.1	464.6	3.66	4.00	3.79	YES
L0003626	0	0.31430E-06	477299.9	3741934.9	464.4	3.66	4.00	3.79	YES
L0003627	0	0.31430E-06	477306.7	3741929.7	464.2	3.66	4.00	3.79	YES
L0003628	0	0.31430E-06	477313.6	3741924.5	464.0	3.66	4.00	3.79	YES
L0003629	0	0.31430E-06	477320.4	3741919.2	463.8	3.66	4.00	3.79	YES
L0003630	0	0.31430E-06	477327.2	3741914.0	463.6	3.66	4.00	3.79	YES
L0003631	0	0.31430E-06	477334.0	3741908.8	463.4	3.66	4.00	3.79	YES
L0003632	0	0.31430E-06	477340.9	3741903.6	463.2	3.66	4.00	3.79	YES
L0003633	0	0.31430E-06	477347.7	3741898.4	463.0	3.66	4.00	3.79	YES
L0003634	0	0.31430E-06	477354.5	3741893.2	462.9	3.66	4.00	3.79	YES
L0003635	0	0.31430E-06	477361.4	3741888.0	462.7	3.66	4.00	3.79	YES
L0003636	0	0.31430E-06	477368.2	3741882.7	462.5	3.66	4.00	3.79	YES
L0003637	0	0.31430E-06	477375.0	3741877.5	462.4	3.66	4.00	3.79	YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR	VARY
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ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0003638	0	0.31430E-06	477381.8	3741872.3	462.2	3.66	4.00	3.79	YES
L0003639	0	0.31430E-06	477388.7	3741867.1	462.1	3.66	4.00	3.79	YES
L0003640	0	0.31430E-06	477395.5	3741861.9	461.9	3.66	4.00	3.79	YES
L0003641	0	0.31430E-06	477402.3	3741856.7	461.8	3.66	4.00	3.79	YES
L0003642	0	0.31430E-06	477409.7	3741852.5	461.7	3.66	4.00	3.79	YES
L0003643	0	0.31430E-06	477418.3	3741852.1	461.5	3.66	4.00	3.79	YES
L0003644	0	0.31430E-06	477426.8	3741851.8	461.3	3.66	4.00	3.79	YES
L0003645	0	0.31430E-06	477435.4	3741851.4	461.1	3.66	4.00	3.79	YES
L0003646	0	0.31430E-06	477442.2	3741847.3	460.9	3.66	4.00	3.79	YES
L0003647	0	0.31430E-06	477443.4	3741838.8	460.9	3.66	4.00	3.79	YES
L0003648	0	0.31430E-06	477443.3	3741830.3	461.0	3.66	4.00	3.79	YES
L0003649	0	0.31430E-06	477443.2	3741821.7	461.0	3.66	4.00	3.79	YES
L0003650	0	0.31430E-06	477443.2	3741813.1	461.1	3.66	4.00	3.79	YES
L0003651	0	0.31430E-06	477442.4	3741804.5	461.1	3.66	4.00	3.79	YES
L0003652	0	0.31430E-06	477440.1	3741796.3	461.2	3.66	4.00	3.79	YES
L0003653	0	0.31430E-06	477439.9	3741787.8	461.1	3.66	4.00	3.79	YES
L0003710	0	0.11950E-06	477334.2	3741778.7	463.6	3.66	4.00	1.63	YES
L0003711	0	0.11950E-06	477342.8	3741778.7	463.4	3.66	4.00	1.63	YES
L0003712	0	0.11950E-06	477351.4	3741778.6	463.1	3.66	4.00	1.63	YES
L0003713	0	0.11950E-06	477360.0	3741778.6	462.9	3.66	4.00	1.63	YES
L0003714	0	0.11950E-06	477368.6	3741778.6	462.7	3.66	4.00	1.63	YES
L0003715	0	0.11950E-06	477377.2	3741778.6	462.6	3.66	4.00	1.63	YES
L0003716	0	0.11950E-06	477385.8	3741778.5	462.4	3.66	4.00	1.63	YES
L0003717	0	0.11950E-06	477394.4	3741778.5	462.2	3.66	4.00	1.63	YES
L0003718	0	0.11950E-06	477402.9	3741778.5	462.0	3.66	4.00	1.63	YES
L0003719	0	0.11950E-06	477411.5	3741778.4	461.8	3.66	4.00	1.63	YES
L0003720	0	0.11950E-06	477420.1	3741778.4	461.6	3.66	4.00	1.63	YES
L0003721	0	0.11950E-06	477428.7	3741778.4	461.4	3.66	4.00	1.63	YES
L0003722	0	0.11950E-06	477437.3	3741778.3	461.2	3.66	4.00	1.63	YES
L0003723	0	0.11950E-06	477445.9	3741778.3	461.0	3.66	4.00	1.63	YES
L0003724	0	0.11950E-06	477454.5	3741778.3	460.8	3.66	4.00	1.63	YES
L0003725	0	0.11950E-06	477463.1	3741778.3	460.6	3.66	4.00	1.63	YES
L0003726	0	0.11950E-06	477471.7	3741778.2	460.4	3.66	4.00	1.63	YES
L0003727	0	0.11950E-06	477480.3	3741778.2	460.3	3.66	4.00	1.63	YES
L0003728	0	0.11950E-06	477488.9	3741778.2	460.2	3.66	4.00	1.63	YES
L0003729	0	0.11950E-06	477497.4	3741778.1	460.0	3.66	4.00	1.63	YES
L0003730	0	0.11950E-06	477506.0	3741778.1	459.8	3.66	4.00	1.63	YES
L0003731	0	0.11950E-06	477514.6	3741778.1	459.6	3.66	4.00	1.63	YES
L0003754	0	0.60750E-07	477517.4	3741766.8	459.6	3.66	4.00	1.63	YES
L0003755	0	0.60750E-07	477518.6	3741758.3	459.6	3.66	4.00	1.63	YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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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
L0003756	0	0.60750E-07	477519.7	3741749.8	459.6	3.66	4.00	1.63	YES	
L0003757	0	0.60750E-07	477519.6	3741741.2	459.7	3.66	4.00	1.63	YES	
L0003758	0	0.60750E-07	477519.5	3741732.6	459.7	3.66	4.00	1.63	YES	
L0003759	0	0.60750E-07	477519.4	3741724.1	459.8	3.66	4.00	1.63	YES	
L0003760	0	0.60750E-07	477519.3	3741715.5	459.8	3.66	4.00	1.63	YES	
L0003761	0	0.60750E-07	477519.3	3741706.9	459.9	3.66	4.00	1.63	YES	
L0003762	0	0.60750E-07	477519.4	3741698.3	460.0	3.66	4.00	1.63	YES	
L0003763	0	0.60750E-07	477519.5	3741689.7	460.1	3.66	4.00	1.63	YES	
L0003764	0	0.60750E-07	477519.6	3741681.1	460.1	3.66	4.00	1.63	YES	
L0003765	0	0.60750E-07	477519.7	3741672.5	460.2	3.66	4.00	1.63	YES	
L0003766	0	0.60750E-07	477519.8	3741663.9	460.3	3.66	4.00	1.63	YES	
L0003767	0	0.60750E-07	477519.9	3741655.3	460.4	3.66	4.00	1.63	YES	
L0003768	0	0.60750E-07	477520.0	3741646.7	460.5	3.66	4.00	1.63	YES	
L0003769	0	0.60750E-07	477520.1	3741638.2	460.6	3.66	4.00	1.63	YES	
L0003770	0	0.60750E-07	477520.2	3741629.6	460.7	3.66	4.00	1.63	YES	
L0003771	0	0.60750E-07	477520.3	3741621.0	460.8	3.66	4.00	1.63	YES	
L0003772	0	0.60750E-07	477520.4	3741612.4	460.9	3.66	4.00	1.63	YES	
L0003773	0	0.60750E-07	477520.4	3741603.8	461.0	3.66	4.00	1.63	YES	
L0003774	0	0.60750E-07	477520.5	3741595.2	461.1	3.66	4.00	1.63	YES	
L0003775	0	0.60750E-07	477520.6	3741586.6	461.1	3.66	4.00	1.63	YES	
L0003776	0	0.60750E-07	477520.5	3741578.0	461.2	3.66	4.00	1.63	YES	
L0003777	0	0.60750E-07	477520.5	3741569.4	461.3	3.66	4.00	1.63	YES	
L0003778	0	0.60750E-07	477520.5	3741560.8	461.4	3.66	4.00	1.63	YES	
L0003779	0	0.60750E-07	477520.4	3741552.2	461.4	3.66	4.00	1.63	YES	
L0003780	0	0.60750E-07	477520.4	3741543.7	461.5	3.66	4.00	1.63	YES	
L0003781	0	0.60750E-07	477520.3	3741535.1	461.6	3.66	4.00	1.63	YES	
L0003782	0	0.60750E-07	477520.3	3741526.5	461.7	3.66	4.00	1.63	YES	
L0003783	0	0.60750E-07	477520.2	3741517.9	461.8	3.66	4.00	1.63	YES	
L0003784	0	0.60750E-07	477520.2	3741509.3	461.8	3.66	4.00	1.63	YES	
L0003785	0	0.60750E-07	477520.2	3741500.7	461.9	3.66	4.00	1.63	YES	
L0003786	0	0.60750E-07	477520.1	3741492.1	462.0	3.66	4.00	1.63	YES	
L0003787	0	0.60750E-07	477520.1	3741483.5	462.1	3.66	4.00	1.63	YES	
L0003788	0	0.60750E-07	477520.0	3741474.9	462.1	3.66	4.00	1.63	YES	
L0003789	0	0.60750E-07	477520.0	3741466.3	462.2	3.66	4.00	1.63	YES	
L0003790	0	0.60750E-07	477520.0	3741457.8	462.3	3.66	4.00	1.63	YES	
L0003791	0	0.60750E-07	477519.9	3741449.2	462.3	3.66	4.00	1.63	YES	
L0003792	0	0.60750E-07	477519.9	3741440.6	462.4	3.66	4.00	1.63	YES	
L0003793	0	0.60750E-07	477519.8	3741432.0	462.5	3.66	4.00	1.63	YES	
L0003794	0	0.60750E-07	477519.8	3741423.4	462.6	3.66	4.00	1.63	YES	
L0003795	0	0.60750E-07	477519.8	3741414.8	462.7	3.66	4.00	1.63	YES	

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 ***

*** 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
L0003796	0	0.60750E-07	477519.7	3741406.2	462.8	3.66	4.00	1.63	YES	
L0003797	0	0.60750E-07	477519.7	3741397.6	462.9	3.66	4.00	1.63	YES	
L0003798	0	0.60750E-07	477519.6	3741389.0	463.0	3.66	4.00	1.63	YES	
L0003799	0	0.60750E-07	477519.6	3741380.4	463.1	3.66	4.00	1.63	YES	
L0003800	0	0.60750E-07	477519.6	3741371.8	463.2	3.66	4.00	1.63	YES	
L0003801	0	0.60750E-07	477519.5	3741363.3	463.2	3.66	4.00	1.63	YES	
L0003802	0	0.60750E-07	477519.5	3741354.7	463.3	3.66	4.00	1.63	YES	
L0003803	0	0.60750E-07	477519.4	3741346.1	463.3	3.66	4.00	1.63	YES	
L0003804	0	0.60750E-07	477519.4	3741337.5	463.4	3.66	4.00	1.63	YES	
L0003805	0	0.60750E-07	477519.4	3741328.9	463.5	3.66	4.00	1.63	YES	
L0003806	0	0.60750E-07	477519.3	3741320.3	463.6	3.66	4.00	1.63	YES	
L0003807	0	0.60750E-07	477519.3	3741311.7	463.7	3.66	4.00	1.63	YES	
L0003808	0	0.60750E-07	477519.2	3741303.1	463.8	3.66	4.00	1.63	YES	
L0003809	0	0.60750E-07	477519.2	3741294.5	463.9	3.66	4.00	1.63	YES	
L0003810	0	0.60750E-07	477519.2	3741285.9	463.9	3.66	4.00	1.63	YES	
L0003811	0	0.60750E-07	477519.1	3741277.3	463.9	3.66	4.00	1.63	YES	
L0003812	0	0.60750E-07	477519.1	3741268.8	463.9	3.66	4.00	1.63	YES	
L0003813	0	0.60750E-07	477519.0	3741260.2	463.9	3.66	4.00	1.63	YES	
L0003814	0	0.60750E-07	477519.0	3741251.6	463.9	3.66	4.00	1.63	YES	
L0003815	0	0.60750E-07	477519.0	3741243.0	463.8	3.66	4.00	1.63	YES	
L0003816	0	0.60750E-07	477518.9	3741234.4	463.7	3.66	4.00	1.63	YES	
L0003817	0	0.60750E-07	477518.9	3741225.8	463.6	3.66	4.00	1.63	YES	
L0003818	0	0.60750E-07	477518.8	3741217.2	463.6	3.66	4.00	1.63	YES	
L0003819	0	0.60750E-07	477519.5	3741208.6	463.6	3.66	4.00	1.63	YES	
L0003820	0	0.60750E-07	477520.2	3741200.1	463.5	3.66	4.00	1.63	YES	
L0003888	0	0.60700E-07	477255.0	3742544.0	459.2	3.66	4.00	1.63	YES	
L0003889	0	0.60700E-07	477255.0	3742535.4	459.3	3.66	4.00	1.63	YES	
L0003890	0	0.60700E-07	477255.0	3742526.8	459.4	3.66	4.00	1.63	YES	
L0003891	0	0.60700E-07	477255.0	3742518.2	459.4	3.66	4.00	1.63	YES	
L0003892	0	0.60700E-07	477255.1	3742509.6	459.5	3.66	4.00	1.63	YES	
L0003893	0	0.60700E-07	477255.1	3742501.0	459.6	3.66	4.00	1.63	YES	
L0003894	0	0.60700E-07	477255.1	3742492.4	459.7	3.66	4.00	1.63	YES	
L0003895	0	0.60700E-07	477255.2	3742483.8	459.8	3.66	4.00	1.63	YES	
L0003896	0	0.60700E-07	477255.2	3742475.2	459.9	3.66	4.00	1.63	YES	
L0003897	0	0.60700E-07	477255.2	3742466.7	460.0	3.66	4.00	1.63	YES	
L0003898	0	0.60700E-07	477255.2	3742458.1	460.1	3.66	4.00	1.63	YES	
L0003899	0	0.60700E-07	477255.3	3742449.5	460.2	3.66	4.00	1.63	YES	
L0003900	0	0.60700E-07	477255.3	3742440.9	460.3	3.66	4.00	1.63	YES	
L0003901	0	0.60700E-07	477255.3	3742432.3	460.3	3.66	4.00	1.63	YES	
L0003902	0	0.60700E-07	477255.4	3742423.7	460.4	3.66	4.00	1.63	YES	

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan

*** 01/19/22

*** 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
L0003903	0	0.60700E-07	477255.4	3742415.1	460.5	3.66	4.00	1.63	YES	
L0003904	0	0.60700E-07	477255.4	3742406.5	460.6	3.66	4.00	1.63	YES	
L0003905	0	0.60700E-07	477255.4	3742397.9	460.6	3.66	4.00	1.63	YES	
L0003906	0	0.60700E-07	477255.5	3742389.3	460.7	3.66	4.00	1.63	YES	
L0003907	0	0.60700E-07	477255.5	3742380.7	460.8	3.66	4.00	1.63	YES	
L0003908	0	0.60700E-07	477255.5	3742372.2	460.9	3.66	4.00	1.63	YES	
L0003909	0	0.60700E-07	477255.6	3742363.6	461.0	3.66	4.00	1.63	YES	
L0003910	0	0.60700E-07	477255.6	3742355.0	461.1	3.66	4.00	1.63	YES	
L0003911	0	0.60700E-07	477255.6	3742346.4	461.2	3.66	4.00	1.63	YES	
L0003912	0	0.60700E-07	477255.6	3742337.8	461.3	3.66	4.00	1.63	YES	
L0003913	0	0.60700E-07	477255.7	3742329.2	461.4	3.66	4.00	1.63	YES	
L0003914	0	0.60700E-07	477255.7	3742320.6	461.4	3.66	4.00	1.63	YES	
L0003915	0	0.60700E-07	477255.7	3742312.0	461.5	3.66	4.00	1.63	YES	
L0003916	0	0.60700E-07	477255.8	3742303.4	461.6	3.66	4.00	1.63	YES	
L0003917	0	0.60700E-07	477255.8	3742294.8	461.7	3.66	4.00	1.63	YES	
L0003918	0	0.60700E-07	477255.8	3742286.2	461.8	3.66	4.00	1.63	YES	
L0003919	0	0.60700E-07	477255.8	3742277.7	461.9	3.66	4.00	1.63	YES	
L0003920	0	0.60700E-07	477255.9	3742269.1	461.9	3.66	4.00	1.63	YES	
L0003921	0	0.60700E-07	477255.9	3742260.5	462.0	3.66	4.00	1.63	YES	
L0003922	0	0.60700E-07	477255.9	3742251.9	462.2	3.66	4.00	1.63	YES	
L0003923	0	0.60700E-07	477256.0	3742243.3	462.3	3.66	4.00	1.63	YES	
L0003924	0	0.60700E-07	477256.0	3742234.7	462.4	3.66	4.00	1.63	YES	
L0003925	0	0.60700E-07	477256.0	3742226.1	462.5	3.66	4.00	1.63	YES	
L0003926	0	0.60700E-07	477256.0	3742217.5	462.7	3.66	4.00	1.63	YES	
L0003927	0	0.60700E-07	477256.1	3742208.9	462.8	3.66	4.00	1.63	YES	
L0003928	0	0.60700E-07	477256.1	3742200.3	463.0	3.66	4.00	1.63	YES	
L0003929	0	0.60700E-07	477256.1	3742191.7	463.2	3.66	4.00	1.63	YES	
L0003930	0	0.60700E-07	477256.2	3742183.2	463.4	3.66	4.00	1.63	YES	
L0003931	0	0.60700E-07	477256.4	3742174.6	463.6	3.66	4.00	1.63	YES	
L0003932	0	0.60700E-07	477256.9	3742166.0	463.8	3.66	4.00	1.63	YES	
L0003933	0	0.60700E-07	477257.3	3742157.4	463.9	3.66	4.00	1.63	YES	
L0003934	0	0.60700E-07	477257.8	3742148.8	464.1	3.66	4.00	1.63	YES	
L0003935	0	0.60700E-07	477258.5	3742140.3	464.1	3.66	4.00	1.63	YES	
L0003936	0	0.60700E-07	477259.7	3742131.8	464.2	3.66	4.00	1.63	YES	
L0003937	0	0.60700E-07	477261.2	3742123.3	464.2	3.66	4.00	1.63	YES	
L0003938	0	0.60700E-07	477263.4	3742115.0	464.2	3.66	4.00	1.63	YES	
L0003939	0	0.60700E-07	477265.7	3742106.7	464.4	3.66	4.00	1.63	YES	
L0003940	0	0.60700E-07	477268.2	3742098.5	464.4	3.66	4.00	1.63	YES	
L0003941	0	0.60700E-07	477270.6	3742090.3	464.5	3.66	4.00	1.63	YES	

L0003942 0 0.60700E-07 477273.1 3742082.1 464.6 3.66 4.00 1.63 YES

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan ***
*** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 ***

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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
L0003943	0	0.60700E-07	477275.6	3742073.8	464.6	3.66	4.00	1.63	YES	
L0003944	0	0.60700E-07	477279.5	3742066.2	464.6	3.66	4.00	1.63	YES	
L0003945	0	0.60700E-07	477283.5	3742058.6	464.6	3.66	4.00	1.63	YES	
L0003946	0	0.60700E-07	477287.4	3742050.9	464.6	3.66	4.00	1.63	YES	
L0003947	0	0.60700E-07	477291.5	3742043.4	464.6	3.66	4.00	1.63	YES	
L0003948	0	0.60700E-07	477296.0	3742036.0	464.5	3.66	4.00	1.63	YES	
L0003949	0	0.60700E-07	477300.4	3742028.7	464.5	3.66	4.00	1.63	YES	
L0003950	0	0.60700E-07	477304.9	3742021.4	464.4	3.66	4.00	1.63	YES	
L0003951	0	0.60700E-07	477309.5	3742014.1	464.3	3.66	4.00	1.63	YES	
L0003952	0	0.60700E-07	477315.2	3742007.7	464.2	3.66	4.00	1.63	YES	
L0003953	0	0.60700E-07	477320.8	3742001.2	464.1	3.66	4.00	1.63	YES	
L0003954	0	0.60700E-07	477326.5	3741994.8	463.9	3.66	4.00	1.63	YES	
L0003955	0	0.60700E-07	477332.2	3741988.3	463.8	3.66	4.00	1.63	YES	
L0003956	0	0.60700E-07	477338.4	3741982.4	463.6	3.66	4.00	1.63	YES	
L0003957	0	0.60700E-07	477344.8	3741976.6	463.4	3.66	4.00	1.63	YES	
L0003958	0	0.60700E-07	477351.2	3741971.0	463.3	3.66	4.00	1.63	YES	
L0003959	0	0.60700E-07	477358.0	3741965.7	463.1	3.66	4.00	1.63	YES	
L0003960	0	0.60700E-07	477364.8	3741960.4	462.9	3.66	4.00	1.63	YES	
L0003961	0	0.60700E-07	477371.7	3741955.3	462.7	3.66	4.00	1.63	YES	
L0003962	0	0.60700E-07	477378.8	3741950.5	462.6	3.66	4.00	1.63	YES	
L0003963	0	0.60700E-07	477385.9	3741945.7	462.4	3.66	4.00	1.63	YES	
L0003964	0	0.60700E-07	477393.0	3741940.8	462.2	3.66	4.00	1.63	YES	
L0003965	0	0.60700E-07	477400.1	3741936.0	462.0	3.66	4.00	1.63	YES	
L0003966	0	0.60700E-07	477407.2	3741931.2	461.8	3.66	4.00	1.63	YES	
L0003967	0	0.60700E-07	477414.3	3741926.3	461.6	3.66	4.00	1.63	YES	
L0003968	0	0.60700E-07	477421.1	3741921.1	461.4	3.66	4.00	1.63	YES	
L0003969	0	0.60700E-07	477427.9	3741915.8	461.2	3.66	4.00	1.63	YES	
L0003970	0	0.60700E-07	477434.7	3741910.5	461.0	3.66	4.00	1.63	YES	
L0003971	0	0.60700E-07	477441.3	3741905.0	460.8	3.66	4.00	1.63	YES	
L0003972	0	0.60700E-07	477447.8	3741899.5	460.7	3.66	4.00	1.63	YES	
L0003973	0	0.60700E-07	477453.7	3741893.2	460.5	3.66	4.00	1.63	YES	
L0003974	0	0.60700E-07	477459.4	3741886.8	460.4	3.66	4.00	1.63	YES	
L0003975	0	0.60700E-07	477465.0	3741880.3	460.3	3.66	4.00	1.63	YES	
L0003976	0	0.60700E-07	477470.7	3741873.8	460.1	3.66	4.00	1.63	YES	
L0003977	0	0.60700E-07	477475.8	3741866.9	460.0	3.66	4.00	1.63	YES	
L0003978	0	0.60700E-07	477480.6	3741859.8	459.9	3.66	4.00	1.63	YES	

L0003979	0	0.60700E-07	477484.8	3741852.3	459.8	3.66	4.00	1.63	YES
L0003980	0	0.60700E-07	477489.0	3741844.8	459.7	3.66	4.00	1.63	YES
L0003981	0	0.60700E-07	477493.0	3741837.2	459.6	3.66	4.00	1.63	YES
L0003982	0	0.60700E-07	477497.1	3741829.7	459.5	3.66	4.00	1.63	YES

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
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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
L0003983	0	0.60700E-07	477501.1	3741822.1	459.5	3.66	4.00	1.63	YES	
L0003984	0	0.60700E-07	477504.2	3741814.1	459.4	3.66	4.00	1.63	YES	
L0003985	0	0.60700E-07	477507.3	3741806.1	459.3	3.66	4.00	1.63	YES	
L0003986	0	0.60700E-07	477510.3	3741798.0	459.3	3.66	4.00	1.63	YES	
L0003987	0	0.60700E-07	477513.4	3741790.0	459.4	3.66	4.00	1.63	YES	

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0003598 , L0003599 , L0003600 , L0003601 , L0003602 , L0003603 , L0003604 , L0003605 , L0003606 , L0003607 , L0003608 , L0003609 , L0003610 , L0003611 , L0003612 , L0003613 , L0003614 , L0003615 , L0003616 , L0003617 , L0003618 , L0003619 , L0003620 , L0003621 , L0003622 , L0003623 , L0003624 , L0003625 , L0003626 , L0003627 , L0003628 , L0003629 , L0003630 , L0003631 , L0003632 , L0003633 , L0003634 , L0003635 , L0003636 , L0003637 , L0003638 , L0003639 , L0003640 , L0003641 , L0003642 , L0003643 , L0003644 , L0003645 , L0003646 , L0003647 , L0003648 , L0003649 , L0003650 , L0003651 , L0003652 , L0003653 , L0003710 , L0003711 , L0003712 , L0003713 , L0003714 , L0003715 , L0003716 , L0003717 ,

L0003718 , L0003719 , L0003720 , L0003721 , L0003722 , L0003723 , L0003724 , L0003725 ,
 L0003726 , L0003727 , L0003728 , L0003729 , L0003730 , L0003731 , L0003754 , L0003755 ,
 L0003756 , L0003757 , L0003758 , L0003759 , L0003760 , L0003761 , L0003762 , L0003763 ,
 L0003764 , L0003765 , L0003766 , L0003767 , L0003768 , L0003769 , L0003770 , L0003771 ,
 L0003772 , L0003773 , L0003774 , L0003775 , L0003776 , L0003777 , L0003778 , L0003779 ,
 L0003780 , L0003781 , L0003782 , L0003783 , L0003784 , L0003785 , L0003786 , L0003787 ,
 L0003788 , L0003789 , L0003790 , L0003791 , L0003792 , L0003793 , L0003794 , L0003795 ,
 L0003796 , L0003797 , L0003798 , L0003799 , L0003800 , L0003801 , L0003802 , L0003803 ,
 L0003804 , L0003805 , L0003806 , L0003807 , L0003808 , L0003809 , L0003810 , L0003811 ,
 L0003812 , L0003813 , L0003814 , L0003815 , L0003816 , L0003817 , L0003818 , L0003819 ,
 L0003820 , L0003888 , L0003889 , L0003890 , L0003891 , L0003892 , L0003893 , L0003894 ,
 L0003895 , L0003896 , L0003897 , L0003898 , L0003899 , L0003900 , L0003901 , L0003902 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs						
-----	-----	-----	-----	-----	-----	-----	-----
L0003903	, L0003904	, L0003905	, L0003906	, L0003907	, L0003908	, L0003909	, L0003910
L0003911	, L0003912	, L0003913	, L0003914	, L0003915	, L0003916	, L0003917	, L0003918
L0003919	, L0003920	, L0003921	, L0003922	, L0003923	, L0003924	, L0003925	, L0003926
L0003927	, L0003928	, L0003929	, L0003930	, L0003931	, L0003932	, L0003933	, L0003934
L0003935	, L0003936	, L0003937	, L0003938	, L0003939	, L0003940	, L0003941	, L0003942
L0003943	, L0003944	, L0003945	, L0003946	, L0003947	, L0003948	, L0003949	, L0003950
L0003951	, L0003952	, L0003953	, L0003954	, L0003955	, L0003956	, L0003957	, L0003958

L0003959 , L0003960 , L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 ,
L0003967 , L0003968 , L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 ,
L0003975 , L0003976 , L0003977 , L0003978 , L0003979 , L0003980 , L0003981 , L0003982 ,
L0003983 , L0003984 , L0003985 , L0003986 , L0003987 , STCK1 , STCK2 , STCK3 ,
STCK4 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs							
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L0003605	2189641.	L0003598	, L0003599	, L0003600	, L0003601	, L0003602	, L0003603	, L0003604	,
	,								
	L0003606	, L0003607	, L0003608	, L0003609	, L0003610	, L0003611	, L0003612	, L0003613	,
	L0003614	, L0003615	, L0003616	, L0003617	, L0003618	, L0003619	, L0003620	, L0003621	,
	L0003622	, L0003623	, L0003624	, L0003625	, L0003626	, L0003627	, L0003628	, L0003629	,
	L0003630	, L0003631	, L0003632	, L0003633	, L0003634	, L0003635	, L0003636	, L0003637	,
	L0003638	, L0003639	, L0003640	, L0003641	, L0003642	, L0003643	, L0003644	, L0003645	,
	L0003646	, L0003647	, L0003648	, L0003649	, L0003650	, L0003651	, L0003652	, L0003653	,
	L0003710	, L0003711	, L0003712	, L0003713	, L0003714	, L0003715	, L0003716	, L0003717	,
	L0003718	, L0003719	, L0003720	, L0003721	, L0003722	, L0003723	, L0003724	, L0003725	,
	L0003726	, L0003727	, L0003728	, L0003729	, L0003730	, L0003731	, L0003754	, L0003755	,
	L0003756	, L0003757	, L0003758	, L0003759	, L0003760	, L0003761	, L0003762	, L0003763	,
	L0003764	, L0003765	, L0003766	, L0003767	, L0003768	, L0003769	, L0003770	, L0003771	,
	L0003772	, L0003773	, L0003774	, L0003775	, L0003776	, L0003777	, L0003778	, L0003779	,
	L0003780	, L0003781	, L0003782	, L0003783	, L0003784	, L0003785	, L0003786	, L0003787	,

L0003788 , L0003789 , L0003790 , L0003791 , L0003792 , L0003793 , L0003794 , L0003795 ,
L0003796 , L0003797 , L0003798 , L0003799 , L0003800 , L0003801 , L0003802 , L0003803 ,
L0003804 , L0003805 , L0003806 , L0003807 , L0003808 , L0003809 , L0003810 , L0003811 ,
L0003812 , L0003813 , L0003814 , L0003815 , L0003816 , L0003817 , L0003818 , L0003819 ,
L0003820 , L0003888 , L0003889 , L0003890 , L0003891 , L0003892 , L0003893 , L0003894 ,
L0003895 , L0003896 , L0003897 , L0003898 , L0003899 , L0003900 , L0003901 , L0003902 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
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L0003903	, L0003904	, L0003905 , L0003906 , L0003907 , L0003908 , L0003909 , L0003910 ,
L0003911	, L0003912	, L0003913 , L0003914 , L0003915 , L0003916 , L0003917 , L0003918 ,
L0003919	, L0003920	, L0003921 , L0003922 , L0003923 , L0003924 , L0003925 , L0003926 ,
L0003927	, L0003928	, L0003929 , L0003930 , L0003931 , L0003932 , L0003933 , L0003934 ,
L0003935	, L0003936	, L0003937 , L0003938 , L0003939 , L0003940 , L0003941 , L0003942 ,
L0003943	, L0003944	, L0003945 , L0003946 , L0003947 , L0003948 , L0003949 , L0003950 ,
L0003951	, L0003952	, L0003953 , L0003954 , L0003955 , L0003956 , L0003957 , L0003958 ,
L0003959	, L0003960	, L0003961 , L0003962 , L0003963 , L0003964 , L0003965 , L0003966 ,
L0003967	, L0003968	, L0003969 , L0003970 , L0003971 , L0003972 , L0003973 , L0003974 ,
L0003975	, L0003976	, L0003977 , L0003978 , L0003979 , L0003980 , L0003981 , L0003982 ,
L0003983	, L0003984	, L0003985 , L0003986 , L0003987 , STCK1 , STCK2 , STCK3 ,
STCK4	,	

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	8.2,	51.4,	32.4,	-46.1,	25.0,	12	8.2,	53.0,	35.1,	-51.4,	19.4,
13	8.2,	53.0,	39.7,	-56.5,	13.3,	14	8.2,	51.3,	47.4,	-62.1,	6.7,
15	8.2,	48.2,	50.4,	-64.2,	-0.1,	16	8.2,	43.5,	46.4,	-61.6,	-6.8,
17	8.2,	37.5,	44.3,	-58.8,	-13.4,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	8.2,	51.4,	32.4,	13.7,	-25.0,	30	8.2,	53.0,	35.1,	16.2,	-19.4,
31	8.2,	53.0,	39.7,	16.8,	-13.3,	32	8.2,	51.3,	47.4,	14.7,	-6.7,
33	8.2,	48.2,	50.4,	13.8,	0.1,	34	8.2,	43.5,	46.4,	15.2,	6.8,
35	8.2,	37.5,	44.3,	14.5,	13.4,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	8.2,	51.4,	32.4,	-53.2,	22.6,	12	8.2,	53.0,	35.1,	-57.9,	15.9,
13	8.2,	53.0,	39.7,	-62.4,	8.6,	14	8.2,	51.3,	47.4,	-67.0,	1.1,
15	8.2,	48.2,	50.4,	-68.1,	-6.5,	16	8.2,	43.5,	46.4,	-64.3,	-13.8,
17	8.2,	37.5,	44.3,	-60.2,	-20.7,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	8.2,	51.4,	32.4,	20.8,	-22.6,	30	8.2,	53.0,	35.1,	22.8,	-15.9,
31	0.0,	0.0,	0.0,	0.0,	0.0,	32	0.0,	0.0,	0.0,	0.0,	0.0,
33	0.0,	0.0,	0.0,	0.0,	0.0,	34	8.2,	43.5,	46.4,	17.9,	13.8,
35	8.2,	37.5,	44.3,	16.0,	20.7,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** *** 17:34:44

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

476642.5, 476723.8, 476805.1, 476886.4, 476967.7, 477049.0, 477130.3, 477211.6, 477292.9, 477374.2,
477455.5, 477536.8, 477618.1, 477699.4, 477780.7, 477862.0, 477943.3, 478024.6, 478105.9, 478187.2,
478268.5,

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

3741193.1, 3741260.9, 3741328.7, 3741396.5, 3741464.3, 3741532.1, 3741599.9, 3741667.7, 3741735.5, 3741803.3,
3741871.1, 3741938.9, 3742006.7, 3742074.5, 3742142.3, 3742210.1, 3742277.9, 3742345.7, 3742413.5, 3742481.3,
3742549.1,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 ***

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17:34:44
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	480.10	477.10	474.10	471.00	468.20	465.00	462.40	460.00	458.40
3742481.29	482.70	479.30	475.40	471.50	468.30	465.20	462.90	461.00	458.90
3742413.49	485.60	483.60	476.20	471.80	468.20	465.50	463.50	461.90	459.50
3742345.69	491.50	497.50	477.00	472.20	469.10	466.50	464.60	462.60	460.30
3742277.89	499.60	495.40	477.30	472.90	469.90	467.70	465.50	463.30	460.80
3742210.09	494.60	487.30	478.00	474.20	471.10	468.50	466.50	464.20	461.80
3742142.29	490.50	484.70	479.30	475.10	472.40	469.20	467.10	465.20	463.10
3742074.49	492.10	485.50	479.40	476.30	473.50	469.20	467.20	466.00	464.00
3742006.69	491.70	486.20	481.20	476.80	473.50	469.20	467.30	466.00	464.80
3741938.89	491.70	487.20	482.20	477.80	474.70	470.40	468.30	467.00	464.60
3741871.09	492.80	487.90	482.90	479.10	475.80	471.20	468.90	467.30	464.70
3741803.29	493.60	489.20	485.20	481.60	479.00	472.00	469.00	467.10	464.90
3741735.49	495.70	492.30	488.30	484.40	479.30	474.00	469.60	466.70	464.80
3741667.69	499.60	496.50	494.20	493.00	481.50	474.60	470.70	468.00	465.80
3741599.89	503.90	507.20	509.10	507.20	484.90	477.60	472.30	469.70	467.30
3741532.09	510.10	528.40	522.90	507.10	487.60	481.60	475.60	472.50	469.90
3741464.29	523.40	532.00	513.60	499.40	490.60	485.30	478.40	475.70	472.20

3741396.49	528.40	523.20	507.00	500.50	492.10	488.50	481.40	478.30	473.40
3741328.69	526.00	514.10	508.30	502.80	491.20	487.30	483.00	480.50	473.80
3741260.89	521.50	513.10	506.90	500.90	492.60	489.20	484.50	479.00	474.20
3741193.09	522.90	512.80	506.60	501.10	495.20	491.10	484.80	479.50	474.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	458.30	459.60	459.40	459.60	454.20	454.00	450.70	447.70	447.30
3742481.29	457.00	455.50	455.00	453.90	452.70	450.20	449.30	447.90	447.30
3742413.49	457.60	456.50	455.80	454.70	453.00	450.80	449.60	448.40	447.50
3742345.69	458.50	457.40	456.30	454.90	453.20	451.40	450.00	449.00	448.10
3742277.89	459.60	458.30	457.00	455.30	453.50	452.50	450.40	449.60	448.60
3742210.09	460.50	459.00	457.90	456.40	454.20	453.50	451.10	450.00	448.80
3742142.29	461.40	459.90	458.20	456.70	455.00	454.30	451.40	450.00	448.80
3742074.49	462.20	460.30	458.60	457.20	455.10	454.40	451.30	449.70	448.70
3742006.69	462.70	460.60	458.70	457.00	455.40	454.40	451.50	450.00	449.10
3741938.89	462.70	460.60	458.70	457.00	455.60	454.00	451.90	450.40	449.10
3741871.09	462.40	460.50	458.60	457.30	455.70	453.80	452.40	450.70	449.30
3741803.29	462.80	460.80	458.50	456.80	455.10	454.30	452.60	450.90	449.50
3741735.49	463.10	461.00	459.30	457.50	456.20	454.70	452.90	450.60	448.90
3741667.69	464.00	461.50	459.90	458.10	456.60	455.10	452.80	450.70	448.80
3741599.89	465.20	462.70	460.40	458.20	456.20	454.50	452.90	451.20	448.80
3741532.09	467.00	463.20	460.90	458.10	456.50	455.60	452.90	451.60	448.90
3741464.29	468.50	464.20	461.40	459.00	456.40	454.90	452.90	451.40	449.20
3741396.49	468.40	464.60	462.10	459.50	456.90	454.70	453.30	451.40	449.90
3741328.69	469.20	465.40	462.60	460.00	457.40	455.00	453.40	451.70	450.50
3741260.89	470.10	466.10	462.50	459.80	458.00	456.10	453.70	452.30	450.50
3741193.09	471.10	467.00	460.90	459.20	458.70	457.30	455.00	453.60	450.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	478105.94	478187.24	478268.54

3742549.09	446.60	445.80	445.20
3742481.29	446.40	445.70	445.20
3742413.49	446.60	445.70	445.30
3742345.69	447.10	446.30	445.50
3742277.89	447.50	447.00	445.70
3742210.09	447.80	447.00	445.90
3742142.29	447.70	446.80	445.90
3742074.49	447.70	446.70	446.00
3742006.69	447.90	446.80	445.90
3741938.89	447.90	446.90	445.80
3741871.09	447.90	446.70	445.80
3741803.29	447.90	446.70	445.70
3741735.49	447.50	446.50	445.50
3741667.69	447.30	446.00	445.10
3741599.89	447.20	446.00	445.00
3741532.09	447.30	446.10	445.00
3741464.29	447.50	446.30	445.30
3741396.49	447.80	446.60	445.60
3741328.69	448.00	446.80	445.90
3741260.89	448.50	447.10	446.00
3741193.09	449.30	447.40	446.20

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	560.70	558.10	504.00	504.00	468.20	465.00	462.40	460.00	458.40
3742481.29	560.70	560.70	560.70	537.20	504.00	465.20	462.90	461.00	458.90
3742413.49	561.60	560.70	560.70	560.70	558.10	504.00	463.50	461.90	459.50
3742345.69	560.70	504.00	588.60	588.60	587.10	504.00	464.60	462.60	460.30
3742277.89	560.70	558.10	589.20	589.20	588.60	588.60	586.90	463.30	460.80
3742210.09	588.60	589.20	602.50	602.50	600.30	588.60	588.60	586.90	461.80
3742142.29	602.50	602.50	602.50	602.50	602.50	602.50	589.20	588.60	463.10
3742074.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	588.60	588.60
3742006.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	588.60
3741938.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741871.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741803.29	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741735.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741667.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50

3741599.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741532.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741464.29	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741396.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741328.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741260.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741193.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	458.30	459.60	460.90	459.60	454.20	454.00	450.70	447.70	447.30
3742481.29	457.00	455.50	455.00	462.30	452.70	450.20	449.30	447.90	447.30
3742413.49	457.60	456.50	455.80	454.70	453.00	450.80	449.60	448.40	447.50
3742345.69	458.50	457.40	456.30	454.90	453.20	451.40	450.00	449.00	448.10
3742277.89	459.60	458.30	457.00	455.30	453.50	452.50	450.40	449.60	448.60
3742210.09	460.50	459.00	457.90	456.40	454.20	453.50	451.10	450.00	448.80
3742142.29	461.40	459.90	458.20	456.70	455.00	454.30	451.40	450.00	448.80
3742074.49	462.20	460.30	458.60	457.20	455.10	454.40	451.30	449.70	448.70
3742006.69	462.70	460.60	458.70	457.00	455.40	454.40	451.50	450.00	449.10
3741938.89	588.60	460.60	458.70	457.00	455.60	454.00	451.90	450.40	449.10
3741871.09	600.30	586.90	458.60	457.30	455.70	453.80	452.40	450.70	449.30
3741803.29	602.50	588.60	458.50	456.80	455.10	454.30	452.60	450.90	449.50
3741735.49	602.50	601.00	459.30	457.50	456.20	454.70	452.90	450.60	448.90
3741667.69	602.50	602.50	459.90	458.10	456.60	455.10	452.80	450.70	448.80
3741599.89	602.50	602.50	590.30	458.20	456.20	454.50	452.90	451.20	448.80
3741532.09	602.50	602.50	590.60	590.30	456.50	455.60	452.90	451.60	448.90
3741464.29	602.50	602.50	601.00	590.30	568.30	567.60	452.90	451.40	449.20
3741396.49	602.50	602.50	602.50	590.60	590.30	568.30	453.30	451.40	449.90
3741328.69	602.50	602.50	602.50	590.60	590.30	568.30	568.10	451.70	450.50
3741260.89	602.50	602.50	602.50	590.60	590.60	568.30	568.30	567.60	450.50
3741193.09	602.50	602.50	602.50	590.60	590.60	568.30	568.30	568.10	450.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	478105.94	478187.24	478268.54
3742549.09	446.60	445.80	445.20
3742481.29	446.40	445.70	445.20
3742413.49	446.60	445.70	445.30
3742345.69	447.10	446.30	445.50
3742277.89	447.50	447.00	445.70
3742210.09	447.80	447.00	445.90
3742142.29	447.70	446.80	445.90
3742074.49	447.70	446.70	446.00
3742006.69	447.90	446.80	445.90
3741938.89	447.90	446.90	445.80
3741871.09	447.90	446.70	445.80
3741803.29	447.90	446.70	445.70
3741735.49	447.50	446.50	445.50
3741667.69	447.30	446.00	445.10
3741599.89	447.20	446.00	445.00
3741532.09	447.30	446.10	445.00
3741464.29	447.50	446.30	445.30
3741396.49	447.80	446.60	445.60
3741328.69	448.00	446.80	445.90
3741260.89	448.50	447.10	446.00
3741193.09	449.30	447.40	446.20

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

(476872.2, 3741997.1,	477.6,	602.5,	0.0);	(476865.3, 3741816.7,	482.0,	602.5,	0.0);
(476897.4, 3741739.0,	483.7,	602.5,	0.0);	(477215.8, 3741722.3,	466.9,	602.5,	0.0);
(477402.7, 3741652.7,	463.5,	602.5,	0.0);	(477414.3, 3741347.9,	467.2,	602.5,	0.0);
(478215.2, 3741801.1,	446.3,	446.3,	0.0);	(478097.3, 3742191.0,	448.0,	448.0,	0.0);

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** 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

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5			
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5			
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5			
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5			
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5			
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5			
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5			
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5			
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5			
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5			
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5			
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5			
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5			
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5			
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5			
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5			
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5			
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5			
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5			
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5			
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30	318.	9.1	284.9	5.5			
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	196.	9.1	283.1	5.5			
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	330.	9.1	281.4	5.5			
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	332.	9.1	280.9	5.5			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00

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

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003598 , L0003599 , L0003600 , L0003601 , L0003602 ,
 L0003603 , L0003604 , L0003605 , L0003606 , L0003607 , L0003608 , L0003609 , L0003610 ,
 L0003611 , L0003612 , L0003613 , L0003614 , L0003615 , L0003616 , L0003617 , L0003618 ,
 L0003619 , L0003620 , L0003621 , L0003622 , L0003623 , L0003624 , L0003625 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	0.00019	0.00022	0.00026	0.00031	0.00035	0.00039	0.00045	0.00058	0.00060
3742481.29	0.00019	0.00023	0.00027	0.00033	0.00038	0.00044	0.00052	0.00076	0.00082
3742413.49	0.00019	0.00023	0.00029	0.00035	0.00042	0.00050	0.00061	0.00088	0.00097
3742345.69	0.00018	0.00020	0.00030	0.00037	0.00046	0.00057	0.00071	0.00102	0.00113
3742277.89	0.00016	0.00021	0.00030	0.00039	0.00050	0.00064	0.00083	0.00119	0.00136
3742210.09	0.00018	0.00023	0.00031	0.00040	0.00053	0.00071	0.00097	0.00141	0.00170
3742142.29	0.00019	0.00024	0.00032	0.00042	0.00056	0.00078	0.00111	0.00167	0.00221
3742074.49	0.00018	0.00024	0.00032	0.00043	0.00058	0.00085	0.00126	0.00195	0.00320
3742006.69	0.00019	0.00024	0.00032	0.00043	0.00061	0.00092	0.00142	0.00236	0.00414
3741938.89	0.00019	0.00024	0.00031	0.00043	0.00060	0.00093	0.00153	0.00301	0.00709
3741871.09	0.00018	0.00023	0.00031	0.00042	0.00059	0.00090	0.00150	0.00305	0.01011
3741803.29	0.00018	0.00023	0.00029	0.00039	0.00054	0.00087	0.00142	0.00258	0.00521
3741735.49	0.00017	0.00021	0.00027	0.00036	0.00052	0.00079	0.00129	0.00226	0.00421
3741667.69	0.00015	0.00019	0.00023	0.00029	0.00047	0.00073	0.00111	0.00175	0.00289
3741599.89	0.00014	0.00015	0.00017	0.00021	0.00040	0.00061	0.00091	0.00131	0.00195
3741532.09	0.00012	0.00012	0.00014	0.00020	0.00035	0.00049	0.00072	0.00099	0.00137
3741464.29	0.00010	0.00011	0.00015	0.00022	0.00030	0.00040	0.00057	0.00075	0.00103
3741396.49	0.00010	0.00011	0.00015	0.00020	0.00027	0.00033	0.00046	0.00060	0.00082
3741328.69	0.00009	0.00012	0.00014	0.00018	0.00025	0.00031	0.00039	0.00049	0.00067
3741260.89	0.00009	0.00011	0.00014	0.00017	0.00022	0.00026	0.00033	0.00044	0.00056
3741193.09	0.00009	0.00011	0.00013	0.00015	0.00019	0.00023	0.00030	0.00038	0.00048

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003598 , L0003599 , L0003600 , L0003601 , L0003602 ,
 L0003603 , L0003604 , L0003605 , L0003606 , L0003607 , L0003608 , L0003609 , L0003610 ,
 L0003611 , L0003612 , L0003613 , L0003614 , L0003615 , L0003616 , L0003617 , L0003618 ,
 L0003619 , L0003620 , L0003621 , L0003622 , L0003623 , L0003624 , L0003625 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	0.00046	0.00042	0.00038	0.00035	0.00031	0.00028	0.00025	0.00022	0.00020
3742481.29	0.00055	0.00047	0.00043	0.00038	0.00034	0.00030	0.00027	0.00024	0.00022
3742413.49	0.00065	0.00056	0.00050	0.00044	0.00039	0.00034	0.00030	0.00026	0.00023
3742345.69	0.00079	0.00066	0.00058	0.00051	0.00044	0.00038	0.00033	0.00028	0.00025
3742277.89	0.00100	0.00080	0.00069	0.00059	0.00050	0.00042	0.00036	0.00031	0.00027
3742210.09	0.00131	0.00100	0.00084	0.00070	0.00057	0.00048	0.00039	0.00033	0.00028

3742142.29	0.00183	0.00129	0.00104	0.00083	0.00066	0.00053	0.00043	0.00036	0.00030
3742074.49	0.00272	0.00174	0.00131	0.00100	0.00076	0.00059	0.00046	0.00038	0.00031
3742006.69	0.00429	0.00249	0.00169	0.00119	0.00086	0.00065	0.00050	0.00040	0.00033
3741938.89	0.00748	0.00391	0.00222	0.00141	0.00096	0.00070	0.00053	0.00042	0.00034
3741871.09	0.01106	0.00696	0.00287	0.00161	0.00104	0.00074	0.00055	0.00043	0.00035
3741803.29	0.00716	0.00786	0.00350	0.00173	0.00109	0.00076	0.00057	0.00044	0.00036
3741735.49	0.00691	0.00711	0.00405	0.00181	0.00112	0.00077	0.00057	0.00044	0.00036
3741667.69	0.00431	0.00455	0.00378	0.00183	0.00112	0.00077	0.00057	0.00044	0.00035
3741599.89	0.00271	0.00307	0.00313	0.00171	0.00109	0.00076	0.00056	0.00044	0.00035
3741532.09	0.00186	0.00221	0.00257	0.00150	0.00104	0.00075	0.00055	0.00043	0.00035
3741464.29	0.00137	0.00168	0.00215	0.00130	0.00095	0.00071	0.00054	0.00042	0.00034
3741396.49	0.00107	0.00133	0.00185	0.00111	0.00085	0.00066	0.00052	0.00041	0.00033
3741328.69	0.00086	0.00110	0.00162	0.00095	0.00076	0.00061	0.00049	0.00040	0.00033
3741260.89	0.00071	0.00091	0.00139	0.00080	0.00067	0.00056	0.00046	0.00038	0.00032
3741193.09	0.00059	0.00072	0.00095	0.00067	0.00058	0.00050	0.00043	0.00036	0.00030

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003598 , L0003599 , L0003600 , L0003601 , L0003602 ,
 L0003603 , L0003604 , L0003605 , L0003606 , L0003607 , L0003608 , L0003609 , L0003610 ,
 L0003611 , L0003612 , L0003613 , L0003614 , L0003615 , L0003616 , L0003617 , L0003618 ,
 L0003619 , L0003620 , L0003621 , L0003622 , L0003623 , L0003624 , L0003625 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	478105.94	478187.24	478268.54
3742549.09	0.00018	0.00016	0.00015
3742481.29	0.00019	0.00017	0.00016
3742413.49	0.00020	0.00018	0.00016
3742345.69	0.00022	0.00019	0.00017
3742277.89	0.00023	0.00020	0.00018
3742210.09	0.00024	0.00021	0.00019
3742142.29	0.00025	0.00022	0.00019
3742074.49	0.00027	0.00023	0.00020
3742006.69	0.00028	0.00024	0.00020
3741938.89	0.00028	0.00024	0.00021
3741871.09	0.00029	0.00024	0.00021
3741803.29	0.00029	0.00025	0.00021
3741735.49	0.00029	0.00025	0.00021
3741667.69	0.00029	0.00025	0.00021
3741599.89	0.00029	0.00024	0.00021
3741532.09	0.00029	0.00024	0.00021

3741464.29	0.00028	0.00024	0.00021
3741396.49	0.00028	0.00024	0.00020
3741328.69	0.00027	0.00023	0.00020
3741260.89	0.00027	0.00023	0.00020
3741193.09	0.00026	0.00022	0.00019

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0003598 , L0003599 , L0003600 , L0003601 , L0003602 ,
 L0003603 , L0003604 , L0003605 , L0003606 , L0003607 , L0003608 , L0003609 , L0003610 ,
 L0003611 , L0003612 , L0003613 , L0003614 , L0003615 , L0003616 , L0003617 , L0003618 ,
 L0003619 , L0003620 , L0003621 , L0003622 , L0003623 , L0003624 , L0003625 , . . .

*** 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
476872.25	3741997.10	0.00041	476865.27	3741816.71	0.00037
476897.42	3741739.01	0.00038	477215.84	3741722.29	0.00222
477402.74	3741652.72	0.00402	477414.30	3741347.94	0.00102
478215.16	3741801.12	0.00023	478097.30	3742191.01	0.00025

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 *** 17:34:44
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.01106 AT (477374.24, 3741871.09, 462.40, 600.30, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.01011 AT (477292.94, 3741871.09, 464.70, 602.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00786 AT (477455.54, 3741803.29, 460.80, 588.60, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00748 AT (477374.24, 3741938.89, 462.70, 588.60, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00716 AT (477374.24, 3741803.29, 462.80, 602.50, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00711 AT (477455.54, 3741735.49, 461.00, 601.00, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00709 AT (477292.94, 3741938.89, 464.60, 602.50, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00696 AT (477455.54, 3741871.09, 460.50, 586.90, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00691 AT (477374.24, 3741735.49, 463.10, 602.50, 0.00)	GC	UCART1

10TH HIGHEST VALUE IS 0.00521 AT (477292.94, 3741803.29, 464.90, 602.50, 0.00) GC UCART1

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

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - 2 Year 2023-24 ***

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*** 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 8 Warning Message(s)
A Total of 2028 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 978 Calm Hours Identified

A Total of 1050 Missing Hours Identified (2.40 Percent)

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

***** WARNING MESSAGES *****
SO W320 651 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 652 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 653 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 654 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 822 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 822 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 14010101
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 2 year gap

*** AERMOD Finishes Successfully ***

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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 1/19/2022
** File: C:\Lakes\19365 Harvill Trailer Storage Yard - 1st 14\19365 Harvill Trailer Storage Yard - 1st 14.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
TITLEONE Harvill revised with new site plan
TITLETWO DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38
MODELOPT DFAULT CONC
AVERTIME PERIOD
URBANOPT 2189641 Riverside_County
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "19365 Harvill Trailer Storage Yard - 1st 14.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 Onsite truck travel
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0000102
** Elevated
** Building Height = 8.15
** SZINIT = 3.79
** Nodes = 21
** 477330.574, 3741786.592, 463.59, 3.81, 4.00
** 477329.931, 3741871.510, 463.44, 3.81, 4.00

```

** 477325.856, 3741876.871, 463.31, 3.81, 4.00
 ** 477274.820, 3741876.442, 465.55, 3.81, 4.00
 ** 477267.958, 3741880.516, 465.54, 3.81, 4.00
 ** 477267.958, 3741938.200, 465.52, 3.81, 4.00
 ** 477271.175, 3741942.275, 465.40, 3.81, 4.00
 ** 477278.037, 3741943.776, 464.94, 3.81, 4.00
 ** 477285.756, 3741943.132, 464.77, 3.81, 4.00
 ** 477293.047, 3741940.130, 464.69, 3.81, 4.00
 ** 477406.485, 3741853.497, 461.57, 3.81, 4.00
 ** 477409.916, 3741852.425, 461.54, 3.81, 4.00
 ** 477437.579, 3741851.353, 460.94, 3.81, 4.00
 ** 477440.581, 3741850.066, 460.92, 3.81, 4.00
 ** 477442.296, 3741847.064, 460.94, 3.81, 4.00
 ** 477443.583, 3741837.629, 460.93, 3.81, 4.00
 ** 477443.154, 3741827.336, 460.98, 3.81, 4.00
 ** 477443.154, 3741809.966, 461.14, 3.81, 4.00
 ** 477442.082, 3741801.818, 461.14, 3.81, 4.00
 ** 477439.938, 3741795.813, 461.12, 3.81, 4.00
 ** 477439.938, 3741786.807, 461.10, 3.81, 4.00

** -----

LOCATION	L0004172	VOLUME	477330.541	3741790.888	463.78
LOCATION	L0004173	VOLUME	477330.476	3741799.478	463.86
LOCATION	L0004174	VOLUME	477330.411	3741808.069	463.94
LOCATION	L0004175	VOLUME	477330.346	3741816.659	463.93
LOCATION	L0004176	VOLUME	477330.281	3741825.250	463.90
LOCATION	L0004177	VOLUME	477330.216	3741833.840	463.87
LOCATION	L0004178	VOLUME	477330.151	3741842.431	463.83
LOCATION	L0004179	VOLUME	477330.086	3741851.022	463.76
LOCATION	L0004180	VOLUME	477330.021	3741859.612	463.68
LOCATION	L0004181	VOLUME	477329.956	3741868.203	463.60
LOCATION	L0004182	VOLUME	477326.734	3741875.716	463.66
LOCATION	L0004183	VOLUME	477318.716	3741876.811	463.91
LOCATION	L0004184	VOLUME	477310.125	3741876.739	464.17
LOCATION	L0004185	VOLUME	477301.535	3741876.667	464.41
LOCATION	L0004186	VOLUME	477292.944	3741876.594	464.65
LOCATION	L0004187	VOLUME	477284.354	3741876.522	464.89
LOCATION	L0004188	VOLUME	477275.763	3741876.450	465.13
LOCATION	L0004189	VOLUME	477268.244	3741880.346	465.33
LOCATION	L0004190	VOLUME	477267.958	3741888.774	465.28
LOCATION	L0004191	VOLUME	477267.958	3741897.365	465.23
LOCATION	L0004192	VOLUME	477267.958	3741905.956	465.23
LOCATION	L0004193	VOLUME	477267.958	3741914.547	465.28
LOCATION	L0004194	VOLUME	477267.958	3741923.137	465.34
LOCATION	L0004195	VOLUME	477267.958	3741931.728	465.39
LOCATION	L0004196	VOLUME	477269.271	3741939.863	465.35
LOCATION	L0004197	VOLUME	477276.565	3741943.454	465.13
LOCATION	L0004198	VOLUME	477285.097	3741943.187	464.87
LOCATION	L0004199	VOLUME	477293.083	3741940.103	464.62
LOCATION	L0004200	VOLUME	477299.910	3741934.889	464.40
LOCATION	L0004201	VOLUME	477306.737	3741929.675	464.18
LOCATION	L0004202	VOLUME	477313.565	3741924.461	463.97

LOCATION	VOLUME	477320.392	3741919.247	463.80
LOCATION L0004203	VOLUME	477320.392	3741919.247	463.80
LOCATION L0004204	VOLUME	477327.220	3741914.033	463.62
LOCATION L0004205	VOLUME	477334.047	3741908.818	463.42
LOCATION L0004206	VOLUME	477340.875	3741903.604	463.21
LOCATION L0004207	VOLUME	477347.702	3741898.390	463.03
LOCATION L0004208	VOLUME	477354.530	3741893.176	462.85
LOCATION L0004209	VOLUME	477361.357	3741887.962	462.67
LOCATION L0004210	VOLUME	477368.185	3741882.748	462.51
LOCATION L0004211	VOLUME	477375.012	3741877.533	462.36
LOCATION L0004212	VOLUME	477381.840	3741872.319	462.20
LOCATION L0004213	VOLUME	477388.667	3741867.105	462.06
LOCATION L0004214	VOLUME	477395.494	3741861.891	461.94
LOCATION L0004215	VOLUME	477402.322	3741856.677	461.82
LOCATION L0004216	VOLUME	477409.685	3741852.497	461.66
LOCATION L0004217	VOLUME	477418.258	3741852.102	461.46
LOCATION L0004218	VOLUME	477426.843	3741851.769	461.27
LOCATION L0004219	VOLUME	477435.427	3741851.436	461.07
LOCATION L0004220	VOLUME	477442.154	3741847.313	460.92
LOCATION L0004221	VOLUME	477443.418	3741838.836	460.90
LOCATION L0004222	VOLUME	477443.276	3741830.263	460.97
LOCATION L0004223	VOLUME	477443.154	3741821.674	461.03
LOCATION L0004224	VOLUME	477443.154	3741813.083	461.08
LOCATION L0004225	VOLUME	477442.440	3741804.539	461.12
LOCATION L0004226	VOLUME	477440.116	3741796.313	461.16
LOCATION L0004227	VOLUME	477439.938	3741787.753	461.14

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Offsite - Orange Avenue to Harvill Ave

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 1.83E-06

** Elevated

** Vertical Dimension = 7.00

** SZINIT = 1.63

** Nodes = 2

** 477329.923, 3741778.717, 463.57, 3.66, 4.00

** 477515.846, 3741778.073, 459.43, 3.66, 4.00

** -----

LOCATION L0004284	VOLUME	477334.218	3741778.702	463.57
LOCATION L0004285	VOLUME	477342.809	3741778.672	463.35
LOCATION L0004286	VOLUME	477351.400	3741778.642	463.14
LOCATION L0004287	VOLUME	477359.991	3741778.613	462.93
LOCATION L0004288	VOLUME	477368.581	3741778.583	462.74
LOCATION L0004289	VOLUME	477377.172	3741778.553	462.56
LOCATION L0004290	VOLUME	477385.763	3741778.523	462.38
LOCATION L0004291	VOLUME	477394.354	3741778.494	462.19
LOCATION L0004292	VOLUME	477402.944	3741778.464	461.99
LOCATION L0004293	VOLUME	477411.535	3741778.434	461.80

LOCATION	L0004294	VOLUME	477420.126	3741778.405	461.60
LOCATION	L0004295	VOLUME	477428.717	3741778.375	461.39
LOCATION	L0004296	VOLUME	477437.307	3741778.345	461.18
LOCATION	L0004297	VOLUME	477445.898	3741778.315	460.98
LOCATION	L0004298	VOLUME	477454.489	3741778.286	460.80
LOCATION	L0004299	VOLUME	477463.080	3741778.256	460.61
LOCATION	L0004300	VOLUME	477471.670	3741778.226	460.45
LOCATION	L0004301	VOLUME	477480.261	3741778.196	460.33
LOCATION	L0004302	VOLUME	477488.852	3741778.167	460.21
LOCATION	L0004303	VOLUME	477497.443	3741778.137	460.03
LOCATION	L0004304	VOLUME	477506.033	3741778.107	459.79
LOCATION	L0004305	VOLUME	477514.624	3741778.078	459.55

** End of LINE VOLUME Source ID = SLINE2

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Off-site - Harvill Ave south of Orange Ave

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 2.83E-06

** Elevated

** Vertical Dimension = 6.99

** SZINIT = 1.62

** Nodes = 6

** 477516.848, 3741771.107, 459.44, 3.66, 4.00

** 477519.765, 3741749.232, 459.67, 3.66, 4.00

** 477519.218, 3741712.774, 459.81, 3.66, 4.00

** 477520.592, 3741591.131, 461.14, 3.66, 4.00

** 477518.826, 3741215.954, 463.62, 3.66, 4.00

** 477520.592, 3741196.022, 463.90, 3.66, 4.00

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LOCATION	L0004328	VOLUME	477517.416	3741766.850	459.55
LOCATION	L0004329	VOLUME	477518.551	3741758.335	459.59
LOCATION	L0004330	VOLUME	477519.687	3741749.820	459.63
LOCATION	L0004331	VOLUME	477519.645	3741741.236	459.67
LOCATION	L0004332	VOLUME	477519.516	3741732.647	459.71
LOCATION	L0004333	VOLUME	477519.388	3741724.058	459.76
LOCATION	L0004334	VOLUME	477519.259	3741715.469	459.80
LOCATION	L0004335	VOLUME	477519.285	3741706.880	459.89
LOCATION	L0004336	VOLUME	477519.382	3741698.291	459.97
LOCATION	L0004337	VOLUME	477519.479	3741689.701	460.05
LOCATION	L0004338	VOLUME	477519.576	3741681.112	460.14
LOCATION	L0004339	VOLUME	477519.673	3741672.522	460.24
LOCATION	L0004340	VOLUME	477519.770	3741663.933	460.34
LOCATION	L0004341	VOLUME	477519.867	3741655.343	460.44
LOCATION	L0004342	VOLUME	477519.964	3741646.754	460.54
LOCATION	L0004343	VOLUME	477520.061	3741638.164	460.63
LOCATION	L0004344	VOLUME	477520.158	3741629.575	460.72
LOCATION	L0004345	VOLUME	477520.255	3741620.986	460.81
LOCATION	L0004346	VOLUME	477520.352	3741612.396	460.89

LOCATION	L0004347	VOLUME	477520.449	3741603.807	460.97
LOCATION	L0004348	VOLUME	477520.546	3741595.217	461.05
LOCATION	L0004349	VOLUME	477520.571	3741586.627	461.13
LOCATION	L0004350	VOLUME	477520.531	3741578.038	461.21
LOCATION	L0004351	VOLUME	477520.490	3741569.448	461.28
LOCATION	L0004352	VOLUME	477520.450	3741560.858	461.36
LOCATION	L0004353	VOLUME	477520.409	3741552.268	461.44
LOCATION	L0004354	VOLUME	477520.369	3741543.678	461.52
LOCATION	L0004355	VOLUME	477520.328	3741535.088	461.60
LOCATION	L0004356	VOLUME	477520.288	3741526.498	461.67
LOCATION	L0004357	VOLUME	477520.247	3741517.908	461.75
LOCATION	L0004358	VOLUME	477520.207	3741509.318	461.83
LOCATION	L0004359	VOLUME	477520.167	3741500.728	461.90
LOCATION	L0004360	VOLUME	477520.126	3741492.139	461.97
LOCATION	L0004361	VOLUME	477520.086	3741483.549	462.05
LOCATION	L0004362	VOLUME	477520.045	3741474.959	462.12
LOCATION	L0004363	VOLUME	477520.005	3741466.369	462.19
LOCATION	L0004364	VOLUME	477519.964	3741457.779	462.26
LOCATION	L0004365	VOLUME	477519.924	3741449.189	462.34
LOCATION	L0004366	VOLUME	477519.884	3741440.599	462.41
LOCATION	L0004367	VOLUME	477519.843	3741432.009	462.50
LOCATION	L0004368	VOLUME	477519.803	3741423.419	462.60
LOCATION	L0004369	VOLUME	477519.762	3741414.829	462.70
LOCATION	L0004370	VOLUME	477519.722	3741406.239	462.80
LOCATION	L0004371	VOLUME	477519.681	3741397.650	462.89
LOCATION	L0004372	VOLUME	477519.641	3741389.060	462.99
LOCATION	L0004373	VOLUME	477519.600	3741380.470	463.08
LOCATION	L0004374	VOLUME	477519.560	3741371.880	463.15
LOCATION	L0004375	VOLUME	477519.520	3741363.290	463.21
LOCATION	L0004376	VOLUME	477519.479	3741354.700	463.26
LOCATION	L0004377	VOLUME	477519.439	3741346.110	463.32
LOCATION	L0004378	VOLUME	477519.398	3741337.520	463.40
LOCATION	L0004379	VOLUME	477519.358	3741328.930	463.48
LOCATION	L0004380	VOLUME	477519.317	3741320.340	463.56
LOCATION	L0004381	VOLUME	477519.277	3741311.751	463.65
LOCATION	L0004382	VOLUME	477519.237	3741303.161	463.75
LOCATION	L0004383	VOLUME	477519.196	3741294.571	463.85
LOCATION	L0004384	VOLUME	477519.156	3741285.981	463.95
LOCATION	L0004385	VOLUME	477519.115	3741277.391	463.95
LOCATION	L0004386	VOLUME	477519.075	3741268.801	463.95
LOCATION	L0004387	VOLUME	477519.034	3741260.211	463.95
LOCATION	L0004388	VOLUME	477518.994	3741251.621	463.92
LOCATION	L0004389	VOLUME	477518.954	3741243.031	463.81
LOCATION	L0004390	VOLUME	477518.913	3741234.441	463.71
LOCATION	L0004391	VOLUME	477518.873	3741225.851	463.61
LOCATION	L0004392	VOLUME	477518.832	3741217.262	463.63
LOCATION	L0004393	VOLUME	477519.469	3741208.700	463.59
LOCATION	L0004394	VOLUME	477520.227	3741200.144	463.53

** End of LINE VOLUME Source ID = SLINE3

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** Line Source Represented by Adjacent Volume Sources

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** LINE VOLUME Source ID = SLINE4
** DESCRSRC Off-site - Harvill Avenue north of Orange Avenue
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.23E-06
** Elevated
** Vertical Dimension = 6.99
** SZINIT = 1.62
** Nodes = 22
** 477254.938, 3742548.264, 459.13, 3.66, 4.00
** 477256.170, 3742178.029, 463.37, 3.66, 4.00
** 477258.225, 3742141.868, 463.98, 3.66, 4.00
** 477260.690, 3742125.432, 464.16, 3.66, 4.00
** 477264.800, 3742109.817, 464.26, 3.66, 4.00
** 477275.483, 3742074.067, 464.82, 3.66, 4.00
** 477290.276, 3742045.303, 464.61, 3.66, 4.00
** 477309.178, 3742014.485, 464.12, 3.66, 4.00
** 477333.011, 3741987.364, 463.67, 3.66, 4.00
** 477343.284, 3741977.913, 463.57, 3.66, 4.00
** 477350.270, 3741971.749, 463.23, 3.66, 4.00
** 477368.761, 3741957.367, 462.88, 3.66, 4.00
** 477394.649, 3741939.698, 462.23, 3.66, 4.00
** 477415.195, 3741925.727, 461.55, 3.66, 4.00
** 477435.740, 3741909.701, 460.87, 3.66, 4.00
** 477448.890, 3741898.606, 460.79, 3.66, 4.00
** 477461.628, 3741884.224, 460.22, 3.66, 4.00
** 477472.312, 3741871.897, 460.19, 3.66, 4.00
** 477480.530, 3741859.980, 459.74, 3.66, 4.00
** 477487.927, 3741846.831, 459.63, 3.66, 4.00
** 477501.487, 3741821.354, 459.45, 3.66, 4.00
** 477514.888, 3741786.059, 459.40, 3.66, 4.00

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LOCATION L0004462    VOLUME  477254.952 3742543.969 459.25
LOCATION L0004463    VOLUME  477254.980 3742535.379 459.31
LOCATION L0004464    VOLUME  477255.009 3742526.789 459.37
LOCATION L0004465    VOLUME  477255.038 3742518.199 459.43
LOCATION L0004466    VOLUME  477255.066 3742509.609 459.52
LOCATION L0004467    VOLUME  477255.095 3742501.019 459.61
LOCATION L0004468    VOLUME  477255.123 3742492.429 459.70
LOCATION L0004469    VOLUME  477255.152 3742483.839 459.80
LOCATION L0004470    VOLUME  477255.181 3742475.249 459.89
LOCATION L0004471    VOLUME  477255.209 3742466.659 459.99
LOCATION L0004472    VOLUME  477255.238 3742458.070 460.08
LOCATION L0004473    VOLUME  477255.266 3742449.480 460.17
LOCATION L0004474    VOLUME  477255.295 3742440.890 460.26
LOCATION L0004475    VOLUME  477255.324 3742432.300 460.34
LOCATION L0004476    VOLUME  477255.352 3742423.710 460.42
LOCATION L0004477    VOLUME  477255.381 3742415.120 460.50
LOCATION L0004478    VOLUME  477255.409 3742406.530 460.57
LOCATION L0004479    VOLUME  477255.438 3742397.940 460.64

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LOCATION	L0004480	VOLUME	477255.467	3742389.350	460.72
LOCATION	L0004481	VOLUME	477255.495	3742380.760	460.80
LOCATION	L0004482	VOLUME	477255.524	3742372.170	460.89
LOCATION	L0004483	VOLUME	477255.552	3742363.580	460.97
LOCATION	L0004484	VOLUME	477255.581	3742354.990	461.07
LOCATION	L0004485	VOLUME	477255.610	3742346.400	461.17
LOCATION	L0004486	VOLUME	477255.638	3742337.810	461.27
LOCATION	L0004487	VOLUME	477255.667	3742329.220	461.36
LOCATION	L0004488	VOLUME	477255.695	3742320.630	461.45
LOCATION	L0004489	VOLUME	477255.724	3742312.040	461.53
LOCATION	L0004490	VOLUME	477255.753	3742303.450	461.61
LOCATION	L0004491	VOLUME	477255.781	3742294.860	461.69
LOCATION	L0004492	VOLUME	477255.810	3742286.270	461.77
LOCATION	L0004493	VOLUME	477255.838	3742277.681	461.85
LOCATION	L0004494	VOLUME	477255.867	3742269.091	461.93
LOCATION	L0004495	VOLUME	477255.896	3742260.501	462.04
LOCATION	L0004496	VOLUME	477255.924	3742251.911	462.15
LOCATION	L0004497	VOLUME	477255.953	3742243.321	462.26
LOCATION	L0004498	VOLUME	477255.981	3742234.731	462.39
LOCATION	L0004499	VOLUME	477256.010	3742226.141	462.54
LOCATION	L0004500	VOLUME	477256.039	3742217.551	462.69
LOCATION	L0004501	VOLUME	477256.067	3742208.961	462.84
LOCATION	L0004502	VOLUME	477256.096	3742200.371	463.04
LOCATION	L0004503	VOLUME	477256.124	3742191.781	463.25
LOCATION	L0004504	VOLUME	477256.153	3742183.191	463.45
LOCATION	L0004505	VOLUME	477256.181	3742174.601	463.62
LOCATION	L0004506	VOLUME	477256.210	3742166.010	463.77
LOCATION	L0004507	VOLUME	477257.239	3742157.424	463.91
LOCATION	L0004508	VOLUME	477257.267	3742148.838	464.05
LOCATION	L0004509	VOLUME	477258.295	3742140.252	464.13
LOCATION	L0004510	VOLUME	477259.323	3742131.666	464.18
LOCATION	L0004511	VOLUME	477261.351	3742123.080	464.21
LOCATION	L0004512	VOLUME	477263.379	3742114.494	464.24
LOCATION	L0004513	VOLUME	477265.407	3742106.908	464.35
LOCATION	L0004514	VOLUME	477268.435	3742098.322	464.44
LOCATION	L0004515	VOLUME	477270.463	3742090.736	464.53
LOCATION	L0004516	VOLUME	477273.491	3742082.150	464.59
LOCATION	L0004517	VOLUME	477275.519	3742073.564	464.63
LOCATION	L0004518	VOLUME	477279.547	3742066.000	464.62
LOCATION	L0004519	VOLUME	477283.575	3742058.436	464.62
LOCATION	L0004520	VOLUME	477287.603	3742050.872	464.59
LOCATION	L0004521	VOLUME	477291.631	3742043.308	464.57
LOCATION	L0004522	VOLUME	477295.659	3742036.744	464.53
LOCATION	L0004523	VOLUME	477300.687	3742028.180	464.48
LOCATION	L0004524	VOLUME	477304.715	3742021.616	464.40
LOCATION	L0004525	VOLUME	477309.743	3742014.052	464.29
LOCATION	L0004526	VOLUME	477315.771	3742007.488	464.17
LOCATION	L0004527	VOLUME	477320.799	3742001.924	464.07
LOCATION	L0004528	VOLUME	477326.827	3741994.360	463.95
LOCATION	L0004529	VOLUME	477332.855	3741988.796	463.79
LOCATION	L0004530	VOLUME	477338.883	3741982.232	463.62

LOCATION	L0004531	VOLUME	477344.715	3741976.651	463.45
LOCATION	L0004532	VOLUME	477351.203	3741971.024	463.28
LOCATION	L0004533	VOLUME	477357.983	3741965.750	463.09
LOCATION	L0004534	VOLUME	477364.764	3741960.476	462.90
LOCATION	L0004535	VOLUME	477371.674	3741955.380	462.74
LOCATION	L0004536	VOLUME	477378.768	3741950.537	462.57
LOCATION	L0004537	VOLUME	477385.863	3741945.694	462.40
LOCATION	L0004538	VOLUME	477392.958	3741940.852	462.22
LOCATION	L0004539	VOLUME	477400.060	3741936.019	462.02
LOCATION	L0004540	VOLUME	477407.163	3741931.188	461.81
LOCATION	L0004541	VOLUME	477414.266	3741926.358	461.61
LOCATION	L0004542	VOLUME	477421.083	3741921.134	461.42
LOCATION	L0004543	VOLUME	477427.856	3741915.851	461.21
LOCATION	L0004544	VOLUME	477434.629	3741910.568	461.01
LOCATION	L0004545	VOLUME	477441.228	3741905.071	460.80
LOCATION	L0004546	VOLUME	477447.794	3741899.531	460.65
LOCATION	L0004547	VOLUME	477453.634	3741893.250	460.53
LOCATION	L0004548	VOLUME	477459.330	3741886.819	460.41
LOCATION	L0004549	VOLUME	477464.984	3741880.352	460.27
LOCATION	L0004550	VOLUME	477470.610	3741873.861	460.12
LOCATION	L0004551	VOLUME	477475.713	3741866.965	460.00
LOCATION	L0004552	VOLUME	477480.582	3741859.889	459.90
LOCATION	L0004553	VOLUME	477484.793	3741852.402	459.80
LOCATION	L0004554	VOLUME	477488.960	3741844.890	459.69
LOCATION	L0004555	VOLUME	477492.996	3741837.308	459.59
LOCATION	L0004556	VOLUME	477497.032	3741829.725	459.54
LOCATION	L0004557	VOLUME	477501.068	3741822.142	459.46
LOCATION	L0004558	VOLUME	477504.219	3741814.158	459.39
LOCATION	L0004559	VOLUME	477507.268	3741806.127	459.34
LOCATION	L0004560	VOLUME	477510.317	3741798.097	459.34
LOCATION	L0004561	VOLUME	477513.366	3741790.066	459.37
**	End of LINE	VOLUME	Source ID =	SLINE4	
LOCATION	STCK1	POINT	477326.040	3741793.170	463.930
**	DESCRSRC	West entrance/exit			
LOCATION	STCK2	POINT	477332.784	3741793.350	463.740
**	DESCRSRC	West entrance/exit			
LOCATION	STCK3	POINT	477435.450	3741790.797	461.260
**	DESCRSRC	West entrance/exit			
LOCATION	STCK4	POINT	477442.927	3741790.615	461.070
**	DESCRSRC	West entrance/exit			
**	Source Parameters	**			
**	LINE	VOLUME	Source ID =	SLINE1	
SRCPARAM	L0004172	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004173	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004174	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004175	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004176	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004177	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004178	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004179	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004180	0.0000001821	3.81	4.00	3.79

SRCPARAM	L0004181	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004182	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004183	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004184	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004185	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004186	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004187	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004188	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004189	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004190	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004191	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004192	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004193	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004194	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004195	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004196	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004197	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004198	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004199	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004200	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004201	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004202	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004203	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004204	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004205	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004206	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004207	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004208	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004209	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004210	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004211	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004212	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004213	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004214	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004215	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004216	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004217	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004218	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004219	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004220	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004221	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004222	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004223	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004224	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004225	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004226	0.0000001821	3.81	4.00	3.79
SRCPARAM	L0004227	0.0000001821	3.81	4.00	3.79

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** LINE VOLUME Source ID = SLINE2
SRCPARAM L0004284 0.00000008318 3.66 4.00 1.63
SRCPARAM L0004285 0.00000008318 3.66 4.00 1.63

SRCPARAM	L0004286	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004287	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004288	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004289	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004290	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004291	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004292	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004293	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004294	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004295	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004296	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004297	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004298	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004299	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004300	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004301	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004302	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004303	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004304	0.00000008318	3.66	4.00	1.63
SRCPARAM	L0004305	0.00000008318	3.66	4.00	1.63

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** -----
 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0004328	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004329	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004330	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004331	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004332	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004333	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004334	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004335	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004336	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004337	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004338	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004339	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004340	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004341	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004342	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004343	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004344	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004345	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004346	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004347	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004348	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004349	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004350	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004351	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004352	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004353	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004354	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004355	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004356	0.00000004224	3.66	4.00	1.62

SRCPARAM	L0004357	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004358	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004359	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004360	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004361	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004362	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004363	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004364	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004365	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004366	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004367	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004368	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004369	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004370	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004371	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004372	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004373	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004374	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004375	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004376	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004377	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004378	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004379	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004380	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004381	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004382	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004383	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004384	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004385	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004386	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004387	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004388	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004389	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004390	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004391	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004392	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004393	0.00000004224	3.66	4.00	1.62
SRCPARAM	L0004394	0.00000004224	3.66	4.00	1.62

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 ** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0004462	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004463	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004464	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004465	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004466	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004467	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004468	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004469	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004470	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004471	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004472	0.0000000423	3.66	4.00	1.62

SRCPARAM	L0004524	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004525	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004526	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004527	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004528	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004529	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004530	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004531	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004532	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004533	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004534	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004535	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004536	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004537	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004538	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004539	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004540	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004541	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004542	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004543	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004544	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004545	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004546	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004547	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004548	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004549	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004550	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004551	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004552	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004553	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004554	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004555	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004556	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004557	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004558	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004559	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004560	0.0000000423	3.66	4.00	1.62
SRCPARAM	L0004561	0.0000000423	3.66	4.00	1.62

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SRCPARAM	STCK1	0.0000248	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000248	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000248	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.0000248	3.658	366.000	51.90000	0.100

** Building Downwash **

BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00

BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK3	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK3	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK4	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK4	0.00	0.00	0.00	46.41	44.28	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	-46.11	-51.38
XBADJ	STCK3	-56.53	-62.09	-64.16	-61.59	-58.75	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	13.72	16.23
XBADJ	STCK3	16.79	14.73	13.81	15.18	14.47	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	-53.21	-57.95
XBADJ	STCK4	-62.38	-67.04	-68.07	-64.32	-60.24	0.00

XBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	20.81	22.80
XBADJ	STCK4	0.00	0.00	0.00	17.91	15.95	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	25.00	19.43
YBADJ	STCK3	13.26	6.69	-0.08	-6.85	-13.41	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	-25.00	-19.43
YBADJ	STCK3	-13.26	-6.69	0.08	6.85	13.41	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	22.62	15.85
YBADJ	STCK4	8.60	1.09	-6.46	-13.81	-20.74	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	-22.62	-15.85
YBADJ	STCK4	0.00	0.00	0.00	13.81	20.74	0.00

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19365 Harvill Trailer Storage Yard - 1st 14.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

```

SURFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC"
PROFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL"
SURFDATA 3171 2010
UAIRDATA 3190 2010
SITEDATA 99999 2010
PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
PLOTFILE PERIOD ALL "19365 HARVILL TRAILER STORAGE YARD - 1ST 14.AD\PE00GALL.PLT" 31
SUMMFILE "19365 Harvill Trailer Storage Yard - 1st 14.sum"
OU FINISHED

```

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

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

```

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

```

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

***** WARNING MESSAGES *****

```

SO W320    651      PPARAM: Input Parameter May Be Out-of-Range for Parameter      VS
SO W320    652      PPARAM: Input Parameter May Be Out-of-Range for Parameter      VS
SO W320    653      PPARAM: Input Parameter May Be Out-of-Range for Parameter      VS
SO W320    654      PPARAM: Input Parameter May Be Out-of-Range for Parameter      VS
ME W186    822      MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used      0.50
ME W187    822      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

```

 *** SETUP Finishes Successfully ***

```

*** AERMOD - VERSION 21112 ***      *** Harvill revised with new site plan      ***      01/19/22
*** AERMET - VERSION 16216 ***      *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 ***      18:09:01
*** MODELOPTs:      RegDFAULT CONC ELEV URBAN ADJ_U*      ***      PAGE      1

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*** MODEL SETUP OPTIONS SUMMARY ***

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 249 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

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

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 249 Source(s); 1 Source Group(s); and 449 Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 245 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) = 442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

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

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

**Detailed Error/Message File: 19365 Harvill Trailer Storage Yard - 1st 14.err
 **File for Summary of Results: 19365 Harvill Trailer Storage Yard - 1st 14.sum

*** AERMOD - VERSION 21112 *** ** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** ** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.24800E-04	477326.0	3741793.2	463.9	3.66	366.00	51.90	0.10	NO	YES	NO	
STCK2	0	0.24800E-04	477332.8	3741793.3	463.7	3.66	366.00	51.90	0.10	NO	YES	NO	
STCK3	0	0.24800E-04	477435.5	3741790.8	461.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.24800E-04	477442.9	3741790.6	461.1	3.66	366.00	51.90	0.10	YES	YES	NO	

*** AERMOD - VERSION 21112 *** ** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** ** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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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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L0004172	0	0.18210E-06	477330.5	3741790.9	463.8	3.81	4.00	3.79	YES
L0004173	0	0.18210E-06	477330.5	3741799.5	463.9	3.81	4.00	3.79	YES
L0004174	0	0.18210E-06	477330.4	3741808.1	463.9	3.81	4.00	3.79	YES
L0004175	0	0.18210E-06	477330.3	3741816.7	463.9	3.81	4.00	3.79	YES
L0004176	0	0.18210E-06	477330.3	3741825.2	463.9	3.81	4.00	3.79	YES
L0004177	0	0.18210E-06	477330.2	3741833.8	463.9	3.81	4.00	3.79	YES
L0004178	0	0.18210E-06	477330.2	3741842.4	463.8	3.81	4.00	3.79	YES
L0004179	0	0.18210E-06	477330.1	3741851.0	463.8	3.81	4.00	3.79	YES
L0004180	0	0.18210E-06	477330.0	3741859.6	463.7	3.81	4.00	3.79	YES
L0004181	0	0.18210E-06	477330.0	3741868.2	463.6	3.81	4.00	3.79	YES
L0004182	0	0.18210E-06	477326.7	3741875.7	463.7	3.81	4.00	3.79	YES
L0004183	0	0.18210E-06	477318.7	3741876.8	463.9	3.81	4.00	3.79	YES
L0004184	0	0.18210E-06	477310.1	3741876.7	464.2	3.81	4.00	3.79	YES
L0004185	0	0.18210E-06	477301.5	3741876.7	464.4	3.81	4.00	3.79	YES
L0004186	0	0.18210E-06	477292.9	3741876.6	464.7	3.81	4.00	3.79	YES
L0004187	0	0.18210E-06	477284.4	3741876.5	464.9	3.81	4.00	3.79	YES
L0004188	0	0.18210E-06	477275.8	3741876.4	465.1	3.81	4.00	3.79	YES
L0004189	0	0.18210E-06	477268.2	3741880.3	465.3	3.81	4.00	3.79	YES
L0004190	0	0.18210E-06	477268.0	3741888.8	465.3	3.81	4.00	3.79	YES
L0004191	0	0.18210E-06	477268.0	3741897.4	465.2	3.81	4.00	3.79	YES
L0004192	0	0.18210E-06	477268.0	3741906.0	465.2	3.81	4.00	3.79	YES
L0004193	0	0.18210E-06	477268.0	3741914.5	465.3	3.81	4.00	3.79	YES
L0004194	0	0.18210E-06	477268.0	3741923.1	465.3	3.81	4.00	3.79	YES
L0004195	0	0.18210E-06	477268.0	3741931.7	465.4	3.81	4.00	3.79	YES
L0004196	0	0.18210E-06	477269.3	3741939.9	465.4	3.81	4.00	3.79	YES
L0004197	0	0.18210E-06	477276.6	3741943.5	465.1	3.81	4.00	3.79	YES
L0004198	0	0.18210E-06	477285.1	3741943.2	464.9	3.81	4.00	3.79	YES
L0004199	0	0.18210E-06	477293.1	3741940.1	464.6	3.81	4.00	3.79	YES
L0004200	0	0.18210E-06	477299.9	3741934.9	464.4	3.81	4.00	3.79	YES
L0004201	0	0.18210E-06	477306.7	3741929.7	464.2	3.81	4.00	3.79	YES
L0004202	0	0.18210E-06	477313.6	3741924.5	464.0	3.81	4.00	3.79	YES
L0004203	0	0.18210E-06	477320.4	3741919.2	463.8	3.81	4.00	3.79	YES
L0004204	0	0.18210E-06	477327.2	3741914.0	463.6	3.81	4.00	3.79	YES
L0004205	0	0.18210E-06	477334.0	3741908.8	463.4	3.81	4.00	3.79	YES
L0004206	0	0.18210E-06	477340.9	3741903.6	463.2	3.81	4.00	3.79	YES
L0004207	0	0.18210E-06	477347.7	3741898.4	463.0	3.81	4.00	3.79	YES
L0004208	0	0.18210E-06	477354.5	3741893.2	462.9	3.81	4.00	3.79	YES
L0004209	0	0.18210E-06	477361.4	3741888.0	462.7	3.81	4.00	3.79	YES
L0004210	0	0.18210E-06	477368.2	3741882.7	462.5	3.81	4.00	3.79	YES
L0004211	0	0.18210E-06	477375.0	3741877.5	462.4	3.81	4.00	3.79	YES

*** AERMOD - VERSION 21112 ***
 *** AERMET - VERSION 16216 ***

*** Harvill revised with new site plan
 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR	VARY
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ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0004212	0	0.18210E-06	477381.8	3741872.3	462.2	3.81	4.00	3.79	YES
L0004213	0	0.18210E-06	477388.7	3741867.1	462.1	3.81	4.00	3.79	YES
L0004214	0	0.18210E-06	477395.5	3741861.9	461.9	3.81	4.00	3.79	YES
L0004215	0	0.18210E-06	477402.3	3741856.7	461.8	3.81	4.00	3.79	YES
L0004216	0	0.18210E-06	477409.7	3741852.5	461.7	3.81	4.00	3.79	YES
L0004217	0	0.18210E-06	477418.3	3741852.1	461.5	3.81	4.00	3.79	YES
L0004218	0	0.18210E-06	477426.8	3741851.8	461.3	3.81	4.00	3.79	YES
L0004219	0	0.18210E-06	477435.4	3741851.4	461.1	3.81	4.00	3.79	YES
L0004220	0	0.18210E-06	477442.2	3741847.3	460.9	3.81	4.00	3.79	YES
L0004221	0	0.18210E-06	477443.4	3741838.8	460.9	3.81	4.00	3.79	YES
L0004222	0	0.18210E-06	477443.3	3741830.3	461.0	3.81	4.00	3.79	YES
L0004223	0	0.18210E-06	477443.2	3741821.7	461.0	3.81	4.00	3.79	YES
L0004224	0	0.18210E-06	477443.2	3741813.1	461.1	3.81	4.00	3.79	YES
L0004225	0	0.18210E-06	477442.4	3741804.5	461.1	3.81	4.00	3.79	YES
L0004226	0	0.18210E-06	477440.1	3741796.3	461.2	3.81	4.00	3.79	YES
L0004227	0	0.18210E-06	477439.9	3741787.8	461.1	3.81	4.00	3.79	YES
L0004284	0	0.83180E-07	477334.2	3741778.7	463.6	3.66	4.00	1.63	YES
L0004285	0	0.83180E-07	477342.8	3741778.7	463.4	3.66	4.00	1.63	YES
L0004286	0	0.83180E-07	477351.4	3741778.6	463.1	3.66	4.00	1.63	YES
L0004287	0	0.83180E-07	477360.0	3741778.6	462.9	3.66	4.00	1.63	YES
L0004288	0	0.83180E-07	477368.6	3741778.6	462.7	3.66	4.00	1.63	YES
L0004289	0	0.83180E-07	477377.2	3741778.6	462.6	3.66	4.00	1.63	YES
L0004290	0	0.83180E-07	477385.8	3741778.5	462.4	3.66	4.00	1.63	YES
L0004291	0	0.83180E-07	477394.4	3741778.5	462.2	3.66	4.00	1.63	YES
L0004292	0	0.83180E-07	477402.9	3741778.5	462.0	3.66	4.00	1.63	YES
L0004293	0	0.83180E-07	477411.5	3741778.4	461.8	3.66	4.00	1.63	YES
L0004294	0	0.83180E-07	477420.1	3741778.4	461.6	3.66	4.00	1.63	YES
L0004295	0	0.83180E-07	477428.7	3741778.4	461.4	3.66	4.00	1.63	YES
L0004296	0	0.83180E-07	477437.3	3741778.3	461.2	3.66	4.00	1.63	YES
L0004297	0	0.83180E-07	477445.9	3741778.3	461.0	3.66	4.00	1.63	YES
L0004298	0	0.83180E-07	477454.5	3741778.3	460.8	3.66	4.00	1.63	YES
L0004299	0	0.83180E-07	477463.1	3741778.3	460.6	3.66	4.00	1.63	YES
L0004300	0	0.83180E-07	477471.7	3741778.2	460.4	3.66	4.00	1.63	YES
L0004301	0	0.83180E-07	477480.3	3741778.2	460.3	3.66	4.00	1.63	YES
L0004302	0	0.83180E-07	477488.9	3741778.2	460.2	3.66	4.00	1.63	YES
L0004303	0	0.83180E-07	477497.4	3741778.1	460.0	3.66	4.00	1.63	YES
L0004304	0	0.83180E-07	477506.0	3741778.1	459.8	3.66	4.00	1.63	YES
L0004305	0	0.83180E-07	477514.6	3741778.1	459.6	3.66	4.00	1.63	YES
L0004328	0	0.42240E-07	477517.4	3741766.8	459.6	3.66	4.00	1.62	YES
L0004329	0	0.42240E-07	477518.6	3741758.3	459.6	3.66	4.00	1.62	YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

*** 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
L0004370	0	0.42240E-07	477519.7	3741406.2	462.8	3.66	4.00	1.62	YES	
L0004371	0	0.42240E-07	477519.7	3741397.6	462.9	3.66	4.00	1.62	YES	
L0004372	0	0.42240E-07	477519.6	3741389.1	463.0	3.66	4.00	1.62	YES	
L0004373	0	0.42240E-07	477519.6	3741380.5	463.1	3.66	4.00	1.62	YES	
L0004374	0	0.42240E-07	477519.6	3741371.9	463.2	3.66	4.00	1.62	YES	
L0004375	0	0.42240E-07	477519.5	3741363.3	463.2	3.66	4.00	1.62	YES	
L0004376	0	0.42240E-07	477519.5	3741354.7	463.3	3.66	4.00	1.62	YES	
L0004377	0	0.42240E-07	477519.4	3741346.1	463.3	3.66	4.00	1.62	YES	
L0004378	0	0.42240E-07	477519.4	3741337.5	463.4	3.66	4.00	1.62	YES	
L0004379	0	0.42240E-07	477519.4	3741328.9	463.5	3.66	4.00	1.62	YES	
L0004380	0	0.42240E-07	477519.3	3741320.3	463.6	3.66	4.00	1.62	YES	
L0004381	0	0.42240E-07	477519.3	3741311.8	463.7	3.66	4.00	1.62	YES	
L0004382	0	0.42240E-07	477519.2	3741303.2	463.8	3.66	4.00	1.62	YES	
L0004383	0	0.42240E-07	477519.2	3741294.6	463.9	3.66	4.00	1.62	YES	
L0004384	0	0.42240E-07	477519.2	3741286.0	463.9	3.66	4.00	1.62	YES	
L0004385	0	0.42240E-07	477519.1	3741277.4	463.9	3.66	4.00	1.62	YES	
L0004386	0	0.42240E-07	477519.1	3741268.8	463.9	3.66	4.00	1.62	YES	
L0004387	0	0.42240E-07	477519.0	3741260.2	463.9	3.66	4.00	1.62	YES	
L0004388	0	0.42240E-07	477519.0	3741251.6	463.9	3.66	4.00	1.62	YES	
L0004389	0	0.42240E-07	477519.0	3741243.0	463.8	3.66	4.00	1.62	YES	
L0004390	0	0.42240E-07	477518.9	3741234.4	463.7	3.66	4.00	1.62	YES	
L0004391	0	0.42240E-07	477518.9	3741225.9	463.6	3.66	4.00	1.62	YES	
L0004392	0	0.42240E-07	477518.8	3741217.3	463.6	3.66	4.00	1.62	YES	
L0004393	0	0.42240E-07	477519.5	3741208.7	463.6	3.66	4.00	1.62	YES	
L0004394	0	0.42240E-07	477520.2	3741200.1	463.5	3.66	4.00	1.62	YES	
L0004462	0	0.42300E-07	477255.0	3742544.0	459.2	3.66	4.00	1.62	YES	
L0004463	0	0.42300E-07	477255.0	3742535.4	459.3	3.66	4.00	1.62	YES	
L0004464	0	0.42300E-07	477255.0	3742526.8	459.4	3.66	4.00	1.62	YES	
L0004465	0	0.42300E-07	477255.0	3742518.2	459.4	3.66	4.00	1.62	YES	
L0004466	0	0.42300E-07	477255.1	3742509.6	459.5	3.66	4.00	1.62	YES	
L0004467	0	0.42300E-07	477255.1	3742501.0	459.6	3.66	4.00	1.62	YES	
L0004468	0	0.42300E-07	477255.1	3742492.4	459.7	3.66	4.00	1.62	YES	
L0004469	0	0.42300E-07	477255.2	3742483.8	459.8	3.66	4.00	1.62	YES	
L0004470	0	0.42300E-07	477255.2	3742475.2	459.9	3.66	4.00	1.62	YES	
L0004471	0	0.42300E-07	477255.2	3742466.7	460.0	3.66	4.00	1.62	YES	
L0004472	0	0.42300E-07	477255.2	3742458.1	460.1	3.66	4.00	1.62	YES	
L0004473	0	0.42300E-07	477255.3	3742449.5	460.2	3.66	4.00	1.62	YES	
L0004474	0	0.42300E-07	477255.3	3742440.9	460.3	3.66	4.00	1.62	YES	
L0004475	0	0.42300E-07	477255.3	3742432.3	460.3	3.66	4.00	1.62	YES	
L0004476	0	0.42300E-07	477255.4	3742423.7	460.4	3.66	4.00	1.62	YES	

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan

*** 01/19/22

*** 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
L0004477	0	0.42300E-07	477255.4	3742415.1	460.5	3.66	4.00	1.62	YES	
L0004478	0	0.42300E-07	477255.4	3742406.5	460.6	3.66	4.00	1.62	YES	
L0004479	0	0.42300E-07	477255.4	3742397.9	460.6	3.66	4.00	1.62	YES	
L0004480	0	0.42300E-07	477255.5	3742389.3	460.7	3.66	4.00	1.62	YES	
L0004481	0	0.42300E-07	477255.5	3742380.8	460.8	3.66	4.00	1.62	YES	
L0004482	0	0.42300E-07	477255.5	3742372.2	460.9	3.66	4.00	1.62	YES	
L0004483	0	0.42300E-07	477255.6	3742363.6	461.0	3.66	4.00	1.62	YES	
L0004484	0	0.42300E-07	477255.6	3742355.0	461.1	3.66	4.00	1.62	YES	
L0004485	0	0.42300E-07	477255.6	3742346.4	461.2	3.66	4.00	1.62	YES	
L0004486	0	0.42300E-07	477255.6	3742337.8	461.3	3.66	4.00	1.62	YES	
L0004487	0	0.42300E-07	477255.7	3742329.2	461.4	3.66	4.00	1.62	YES	
L0004488	0	0.42300E-07	477255.7	3742320.6	461.4	3.66	4.00	1.62	YES	
L0004489	0	0.42300E-07	477255.7	3742312.0	461.5	3.66	4.00	1.62	YES	
L0004490	0	0.42300E-07	477255.8	3742303.4	461.6	3.66	4.00	1.62	YES	
L0004491	0	0.42300E-07	477255.8	3742294.9	461.7	3.66	4.00	1.62	YES	
L0004492	0	0.42300E-07	477255.8	3742286.3	461.8	3.66	4.00	1.62	YES	
L0004493	0	0.42300E-07	477255.8	3742277.7	461.9	3.66	4.00	1.62	YES	
L0004494	0	0.42300E-07	477255.9	3742269.1	461.9	3.66	4.00	1.62	YES	
L0004495	0	0.42300E-07	477255.9	3742260.5	462.0	3.66	4.00	1.62	YES	
L0004496	0	0.42300E-07	477255.9	3742251.9	462.2	3.66	4.00	1.62	YES	
L0004497	0	0.42300E-07	477256.0	3742243.3	462.3	3.66	4.00	1.62	YES	
L0004498	0	0.42300E-07	477256.0	3742234.7	462.4	3.66	4.00	1.62	YES	
L0004499	0	0.42300E-07	477256.0	3742226.1	462.5	3.66	4.00	1.62	YES	
L0004500	0	0.42300E-07	477256.0	3742217.6	462.7	3.66	4.00	1.62	YES	
L0004501	0	0.42300E-07	477256.1	3742209.0	462.8	3.66	4.00	1.62	YES	
L0004502	0	0.42300E-07	477256.1	3742200.4	463.0	3.66	4.00	1.62	YES	
L0004503	0	0.42300E-07	477256.1	3742191.8	463.2	3.66	4.00	1.62	YES	
L0004504	0	0.42300E-07	477256.2	3742183.2	463.4	3.66	4.00	1.62	YES	
L0004505	0	0.42300E-07	477256.4	3742174.6	463.6	3.66	4.00	1.62	YES	
L0004506	0	0.42300E-07	477256.9	3742166.0	463.8	3.66	4.00	1.62	YES	
L0004507	0	0.42300E-07	477257.3	3742157.5	463.9	3.66	4.00	1.62	YES	
L0004508	0	0.42300E-07	477257.8	3742148.9	464.1	3.66	4.00	1.62	YES	
L0004509	0	0.42300E-07	477258.5	3742140.3	464.1	3.66	4.00	1.62	YES	
L0004510	0	0.42300E-07	477259.7	3742131.8	464.2	3.66	4.00	1.62	YES	
L0004511	0	0.42300E-07	477261.2	3742123.4	464.2	3.66	4.00	1.62	YES	
L0004512	0	0.42300E-07	477263.4	3742115.1	464.2	3.66	4.00	1.62	YES	
L0004513	0	0.42300E-07	477265.7	3742106.8	464.4	3.66	4.00	1.62	YES	
L0004514	0	0.42300E-07	477268.2	3742098.6	464.4	3.66	4.00	1.62	YES	
L0004515	0	0.42300E-07	477270.6	3742090.3	464.5	3.66	4.00	1.62	YES	

L0004516 0 0.42300E-07 477273.1 3742082.1 464.6 3.66 4.00 1.62 YES

*** AERMOT - VERSION 21112 *** *** Harvill revised with new site plan ***
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 ***

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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
L0004517	0	0.42300E-07	477275.6	3742073.9	464.6	3.66	4.00	1.62	YES	
L0004518	0	0.42300E-07	477279.5	3742066.2	464.6	3.66	4.00	1.62	YES	
L0004519	0	0.42300E-07	477283.4	3742058.6	464.6	3.66	4.00	1.62	YES	
L0004520	0	0.42300E-07	477287.4	3742051.0	464.6	3.66	4.00	1.62	YES	
L0004521	0	0.42300E-07	477291.4	3742043.4	464.6	3.66	4.00	1.62	YES	
L0004522	0	0.42300E-07	477295.9	3742036.1	464.5	3.66	4.00	1.62	YES	
L0004523	0	0.42300E-07	477300.4	3742028.8	464.5	3.66	4.00	1.62	YES	
L0004524	0	0.42300E-07	477304.9	3742021.4	464.4	3.66	4.00	1.62	YES	
L0004525	0	0.42300E-07	477309.5	3742014.2	464.3	3.66	4.00	1.62	YES	
L0004526	0	0.42300E-07	477315.1	3742007.7	464.2	3.66	4.00	1.62	YES	
L0004527	0	0.42300E-07	477320.8	3742001.3	464.1	3.66	4.00	1.62	YES	
L0004528	0	0.42300E-07	477326.5	3741994.8	463.9	3.66	4.00	1.62	YES	
L0004529	0	0.42300E-07	477332.1	3741988.3	463.8	3.66	4.00	1.62	YES	
L0004530	0	0.42300E-07	477338.4	3741982.4	463.6	3.66	4.00	1.62	YES	
L0004531	0	0.42300E-07	477344.7	3741976.7	463.4	3.66	4.00	1.62	YES	
L0004532	0	0.42300E-07	477351.2	3741971.0	463.3	3.66	4.00	1.62	YES	
L0004533	0	0.42300E-07	477358.0	3741965.8	463.1	3.66	4.00	1.62	YES	
L0004534	0	0.42300E-07	477364.8	3741960.5	462.9	3.66	4.00	1.62	YES	
L0004535	0	0.42300E-07	477371.7	3741955.4	462.7	3.66	4.00	1.62	YES	
L0004536	0	0.42300E-07	477378.8	3741950.5	462.6	3.66	4.00	1.62	YES	
L0004537	0	0.42300E-07	477385.9	3741945.7	462.4	3.66	4.00	1.62	YES	
L0004538	0	0.42300E-07	477393.0	3741940.9	462.2	3.66	4.00	1.62	YES	
L0004539	0	0.42300E-07	477400.1	3741936.0	462.0	3.66	4.00	1.62	YES	
L0004540	0	0.42300E-07	477407.2	3741931.2	461.8	3.66	4.00	1.62	YES	
L0004541	0	0.42300E-07	477414.3	3741926.4	461.6	3.66	4.00	1.62	YES	
L0004542	0	0.42300E-07	477421.1	3741921.1	461.4	3.66	4.00	1.62	YES	
L0004543	0	0.42300E-07	477427.9	3741915.9	461.2	3.66	4.00	1.62	YES	
L0004544	0	0.42300E-07	477434.6	3741910.6	461.0	3.66	4.00	1.62	YES	
L0004545	0	0.42300E-07	477441.2	3741905.1	460.8	3.66	4.00	1.62	YES	
L0004546	0	0.42300E-07	477447.8	3741899.5	460.7	3.66	4.00	1.62	YES	
L0004547	0	0.42300E-07	477453.6	3741893.2	460.5	3.66	4.00	1.62	YES	
L0004548	0	0.42300E-07	477459.3	3741886.8	460.4	3.66	4.00	1.62	YES	
L0004549	0	0.42300E-07	477465.0	3741880.4	460.3	3.66	4.00	1.62	YES	
L0004550	0	0.42300E-07	477470.6	3741873.9	460.1	3.66	4.00	1.62	YES	
L0004551	0	0.42300E-07	477475.7	3741867.0	460.0	3.66	4.00	1.62	YES	
L0004552	0	0.42300E-07	477480.6	3741859.9	459.9	3.66	4.00	1.62	YES	

L0004553	0	0.42300E-07	477484.8	3741852.4	459.8	3.66	4.00	1.62	YES
L0004554	0	0.42300E-07	477489.0	3741844.9	459.7	3.66	4.00	1.62	YES
L0004555	0	0.42300E-07	477493.0	3741837.3	459.6	3.66	4.00	1.62	YES
L0004556	0	0.42300E-07	477497.0	3741829.7	459.5	3.66	4.00	1.62	YES

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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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
L0004557	0	0.42300E-07	477501.1	3741822.1	459.5	3.66	4.00	1.62	YES	
L0004558	0	0.42300E-07	477504.2	3741814.2	459.4	3.66	4.00	1.62	YES	
L0004559	0	0.42300E-07	477507.3	3741806.1	459.3	3.66	4.00	1.62	YES	
L0004560	0	0.42300E-07	477510.3	3741798.1	459.3	3.66	4.00	1.62	YES	
L0004561	0	0.42300E-07	477513.4	3741790.1	459.4	3.66	4.00	1.62	YES	

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0004172 , L0004173 , L0004174 , L0004175 , L0004176 , L0004177 , L0004178 , L0004179 , L0004180 , L0004181 , L0004182 , L0004183 , L0004184 , L0004185 , L0004186 , L0004187 , L0004188 , L0004189 , L0004190 , L0004191 , L0004192 , L0004193 , L0004194 , L0004195 , L0004196 , L0004197 , L0004198 , L0004199 , L0004200 , L0004201 , L0004202 , L0004203 , L0004204 , L0004205 , L0004206 , L0004207 , L0004208 , L0004209 , L0004210 , L0004211 , L0004212 , L0004213 , L0004214 , L0004215 , L0004216 , L0004217 , L0004218 , L0004219 , L0004220 , L0004221 , L0004222 , L0004223 , L0004224 , L0004225 , L0004226 , L0004227 , L0004284 , L0004285 , L0004286 , L0004287 , L0004288 , L0004289 , L0004290 , L0004291 ,

L0004292 , L0004293 , L0004294 , L0004295 , L0004296 , L0004297 , L0004298 , L0004299 ,
 L0004300 , L0004301 , L0004302 , L0004303 , L0004304 , L0004305 , L0004328 , L0004329 ,
 L0004330 , L0004331 , L0004332 , L0004333 , L0004334 , L0004335 , L0004336 , L0004337 ,
 L0004338 , L0004339 , L0004340 , L0004341 , L0004342 , L0004343 , L0004344 , L0004345 ,
 L0004346 , L0004347 , L0004348 , L0004349 , L0004350 , L0004351 , L0004352 , L0004353 ,
 L0004354 , L0004355 , L0004356 , L0004357 , L0004358 , L0004359 , L0004360 , L0004361 ,
 L0004362 , L0004363 , L0004364 , L0004365 , L0004366 , L0004367 , L0004368 , L0004369 ,
 L0004370 , L0004371 , L0004372 , L0004373 , L0004374 , L0004375 , L0004376 , L0004377 ,
 L0004378 , L0004379 , L0004380 , L0004381 , L0004382 , L0004383 , L0004384 , L0004385 ,
 L0004386 , L0004387 , L0004388 , L0004389 , L0004390 , L0004391 , L0004392 , L0004393 ,
 L0004394 , L0004462 , L0004463 , L0004464 , L0004465 , L0004466 , L0004467 , L0004468 ,
 L0004469 , L0004470 , L0004471 , L0004472 , L0004473 , L0004474 , L0004475 , L0004476 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* *** PAGE 11

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID								SOURCE IDs							
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L0004477	,	L0004478	,	L0004479	,	L0004480	,	L0004481	,	L0004482	,	L0004483	,	L0004484	,
L0004485	,	L0004486	,	L0004487	,	L0004488	,	L0004489	,	L0004490	,	L0004491	,	L0004492	,
L0004493	,	L0004494	,	L0004495	,	L0004496	,	L0004497	,	L0004498	,	L0004499	,	L0004500	,
L0004501	,	L0004502	,	L0004503	,	L0004504	,	L0004505	,	L0004506	,	L0004507	,	L0004508	,
L0004509	,	L0004510	,	L0004511	,	L0004512	,	L0004513	,	L0004514	,	L0004515	,	L0004516	,
L0004517	,	L0004518	,	L0004519	,	L0004520	,	L0004521	,	L0004522	,	L0004523	,	L0004524	,
L0004525	,	L0004526	,	L0004527	,	L0004528	,	L0004529	,	L0004530	,	L0004531	,	L0004532	,

L0004533 , L0004534 , L0004535 , L0004536 , L0004537 , L0004538 , L0004539 , L0004540 ,
 L0004541 , L0004542 , L0004543 , L0004544 , L0004545 , L0004546 , L0004547 , L0004548 ,
 L0004549 , L0004550 , L0004551 , L0004552 , L0004553 , L0004554 , L0004555 , L0004556 ,
 L0004557 , L0004558 , L0004559 , L0004560 , L0004561 , STCK1 , STCK2 , STCK3 ,
 STCK4 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* PAGE 12

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

URBAN ID	URBAN POP	SOURCE IDs							
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L0004179	2189641.	L0004172	, L0004173	, L0004174	, L0004175	, L0004176	, L0004177	, L0004178	,
	,								
	L0004180	, L0004181	, L0004182	, L0004183	, L0004184	, L0004185	, L0004186	, L0004187	,
	L0004188	, L0004189	, L0004190	, L0004191	, L0004192	, L0004193	, L0004194	, L0004195	,
	L0004196	, L0004197	, L0004198	, L0004199	, L0004200	, L0004201	, L0004202	, L0004203	,
	L0004204	, L0004205	, L0004206	, L0004207	, L0004208	, L0004209	, L0004210	, L0004211	,
	L0004212	, L0004213	, L0004214	, L0004215	, L0004216	, L0004217	, L0004218	, L0004219	,
	L0004220	, L0004221	, L0004222	, L0004223	, L0004224	, L0004225	, L0004226	, L0004227	,
	L0004284	, L0004285	, L0004286	, L0004287	, L0004288	, L0004289	, L0004290	, L0004291	,
	L0004292	, L0004293	, L0004294	, L0004295	, L0004296	, L0004297	, L0004298	, L0004299	,
	L0004300	, L0004301	, L0004302	, L0004303	, L0004304	, L0004305	, L0004328	, L0004329	,
	L0004330	, L0004331	, L0004332	, L0004333	, L0004334	, L0004335	, L0004336	, L0004337	,
	L0004338	, L0004339	, L0004340	, L0004341	, L0004342	, L0004343	, L0004344	, L0004345	,
	L0004346	, L0004347	, L0004348	, L0004349	, L0004350	, L0004351	, L0004352	, L0004353	,
	L0004354	, L0004355	, L0004356	, L0004357	, L0004358	, L0004359	, L0004360	, L0004361	,

L0004362 , L0004363 , L0004364 , L0004365 , L0004366 , L0004367 , L0004368 , L0004369 ,
 L0004370 , L0004371 , L0004372 , L0004373 , L0004374 , L0004375 , L0004376 , L0004377 ,
 L0004378 , L0004379 , L0004380 , L0004381 , L0004382 , L0004383 , L0004384 , L0004385 ,
 L0004386 , L0004387 , L0004388 , L0004389 , L0004390 , L0004391 , L0004392 , L0004393 ,
 L0004394 , L0004462 , L0004463 , L0004464 , L0004465 , L0004466 , L0004467 , L0004468 ,
 L0004469 , L0004470 , L0004471 , L0004472 , L0004473 , L0004474 , L0004475 , L0004476 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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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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L0004477	, L0004478	, L0004479 , L0004480 , L0004481 , L0004482 , L0004483 , L0004484 ,
L0004485	, L0004486	, L0004487 , L0004488 , L0004489 , L0004490 , L0004491 , L0004492 ,
L0004493	, L0004494	, L0004495 , L0004496 , L0004497 , L0004498 , L0004499 , L0004500 ,
L0004501	, L0004502	, L0004503 , L0004504 , L0004505 , L0004506 , L0004507 , L0004508 ,
L0004509	, L0004510	, L0004511 , L0004512 , L0004513 , L0004514 , L0004515 , L0004516 ,
L0004517	, L0004518	, L0004519 , L0004520 , L0004521 , L0004522 , L0004523 , L0004524 ,
L0004525	, L0004526	, L0004527 , L0004528 , L0004529 , L0004530 , L0004531 , L0004532 ,
L0004533	, L0004534	, L0004535 , L0004536 , L0004537 , L0004538 , L0004539 , L0004540 ,
L0004541	, L0004542	, L0004543 , L0004544 , L0004545 , L0004546 , L0004547 , L0004548 ,
L0004549	, L0004550	, L0004551 , L0004552 , L0004553 , L0004554 , L0004555 , L0004556 ,
L0004557	, L0004558	, L0004559 , L0004560 , L0004561 , STCK1 , STCK2 , STCK3 ,
STCK4	,	

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	8.2,	51.4,	32.4,	-46.1,	25.0,	12	8.2,	53.0,	35.1,	-51.4,	19.4,
13	8.2,	53.0,	39.7,	-56.5,	13.3,	14	8.2,	51.3,	47.4,	-62.1,	6.7,
15	8.2,	48.2,	50.4,	-64.2,	-0.1,	16	8.2,	43.5,	46.4,	-61.6,	-6.8,
17	8.2,	37.5,	44.3,	-58.8,	-13.4,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	8.2,	51.4,	32.4,	13.7,	-25.0,	30	8.2,	53.0,	35.1,	16.2,	-19.4,
31	8.2,	53.0,	39.7,	16.8,	-13.3,	32	8.2,	51.3,	47.4,	14.7,	-6.7,
33	8.2,	48.2,	50.4,	13.8,	0.1,	34	8.2,	43.5,	46.4,	15.2,	6.8,
35	8.2,	37.5,	44.3,	14.5,	13.4,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	8.2,	51.4,	32.4,	-53.2,	22.6,	12	8.2,	53.0,	35.1,	-57.9,	15.9,
13	8.2,	53.0,	39.7,	-62.4,	8.6,	14	8.2,	51.3,	47.4,	-67.0,	1.1,
15	8.2,	48.2,	50.4,	-68.1,	-6.5,	16	8.2,	43.5,	46.4,	-64.3,	-13.8,
17	8.2,	37.5,	44.3,	-60.2,	-20.7,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	8.2,	51.4,	32.4,	20.8,	-22.6,	30	8.2,	53.0,	35.1,	22.8,	-15.9,
31	0.0,	0.0,	0.0,	0.0,	0.0,	32	0.0,	0.0,	0.0,	0.0,	0.0,
33	0.0,	0.0,	0.0,	0.0,	0.0,	34	8.2,	43.5,	46.4,	17.9,	13.8,
35	8.2,	37.5,	44.3,	16.0,	20.7,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

476642.5, 476723.8, 476805.1, 476886.4, 476967.7, 477049.0, 477130.3, 477211.6, 477292.9, 477374.2,
477455.5, 477536.8, 477618.1, 477699.4, 477780.7, 477862.0, 477943.3, 478024.6, 478105.9, 478187.2,
478268.5,

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

3741193.1, 3741260.9, 3741328.7, 3741396.5, 3741464.3, 3741532.1, 3741599.9, 3741667.7, 3741735.5, 3741803.3,
3741871.1, 3741938.9, 3742006.7, 3742074.5, 3742142.3, 3742210.1, 3742277.9, 3742345.7, 3742413.5, 3742481.3,
3742549.1,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	480.10	477.10	474.10	471.00	468.20	465.00	462.40	460.00	458.40
3742481.29	482.70	479.30	475.40	471.50	468.30	465.20	462.90	461.00	458.90
3742413.49	485.60	483.60	476.20	471.80	468.20	465.50	463.50	461.90	459.50
3742345.69	491.50	497.50	477.00	472.20	469.10	466.50	464.60	462.60	460.30
3742277.89	499.60	495.40	477.30	472.90	469.90	467.70	465.50	463.30	460.80
3742210.09	494.60	487.30	478.00	474.20	471.10	468.50	466.50	464.20	461.80
3742142.29	490.50	484.70	479.30	475.10	472.40	469.20	467.10	465.20	463.10
3742074.49	492.10	485.50	479.40	476.30	473.50	469.20	467.20	466.00	464.00
3742006.69	491.70	486.20	481.20	476.80	473.50	469.20	467.30	466.00	464.80
3741938.89	491.70	487.20	482.20	477.80	474.70	470.40	468.30	467.00	464.60
3741871.09	492.80	487.90	482.90	479.10	475.80	471.20	468.90	467.30	464.70
3741803.29	493.60	489.20	485.20	481.60	479.00	472.00	469.00	467.10	464.90
3741735.49	495.70	492.30	488.30	484.40	479.30	474.00	469.60	466.70	464.80
3741667.69	499.60	496.50	494.20	493.00	481.50	474.60	470.70	468.00	465.80
3741599.89	503.90	507.20	509.10	507.20	484.90	477.60	472.30	469.70	467.30
3741532.09	510.10	528.40	522.90	507.10	487.60	481.60	475.60	472.50	469.90
3741464.29	523.40	532.00	513.60	499.40	490.60	485.30	478.40	475.70	472.20

3741396.49	528.40	523.20	507.00	500.50	492.10	488.50	481.40	478.30	473.40
3741328.69	526.00	514.10	508.30	502.80	491.20	487.30	483.00	480.50	473.80
3741260.89	521.50	513.10	506.90	500.90	492.60	489.20	484.50	479.00	474.20
3741193.09	522.90	512.80	506.60	501.10	495.20	491.10	484.80	479.50	474.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	458.30	459.60	459.40	459.60	454.20	454.00	450.70	447.70	447.30
3742481.29	457.00	455.50	455.00	453.90	452.70	450.20	449.30	447.90	447.30
3742413.49	457.60	456.50	455.80	454.70	453.00	450.80	449.60	448.40	447.50
3742345.69	458.50	457.40	456.30	454.90	453.20	451.40	450.00	449.00	448.10
3742277.89	459.60	458.30	457.00	455.30	453.50	452.50	450.40	449.60	448.60
3742210.09	460.50	459.00	457.90	456.40	454.20	453.50	451.10	450.00	448.80
3742142.29	461.40	459.90	458.20	456.70	455.00	454.30	451.40	450.00	448.80
3742074.49	462.20	460.30	458.60	457.20	455.10	454.40	451.30	449.70	448.70
3742006.69	462.70	460.60	458.70	457.00	455.40	454.40	451.50	450.00	449.10
3741938.89	462.70	460.60	458.70	457.00	455.60	454.00	451.90	450.40	449.10
3741871.09	462.40	460.50	458.60	457.30	455.70	453.80	452.40	450.70	449.30
3741803.29	462.80	460.80	458.50	456.80	455.10	454.30	452.60	450.90	449.50
3741735.49	463.10	461.00	459.30	457.50	456.20	454.70	452.90	450.60	448.90
3741667.69	464.00	461.50	459.90	458.10	456.60	455.10	452.80	450.70	448.80
3741599.89	465.20	462.70	460.40	458.20	456.20	454.50	452.90	451.20	448.80
3741532.09	467.00	463.20	460.90	458.10	456.50	455.60	452.90	451.60	448.90
3741464.29	468.50	464.20	461.40	459.00	456.40	454.90	452.90	451.40	449.20
3741396.49	468.40	464.60	462.10	459.50	456.90	454.70	453.30	451.40	449.90
3741328.69	469.20	465.40	462.60	460.00	457.40	455.00	453.40	451.70	450.50
3741260.89	470.10	466.10	462.50	459.80	458.00	456.10	453.70	452.30	450.50
3741193.09	471.10	467.00	460.90	459.20	458.70	457.30	455.00	453.60	450.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	478105.94	478187.24	478268.54

3742549.09	446.60	445.80	445.20
3742481.29	446.40	445.70	445.20
3742413.49	446.60	445.70	445.30
3742345.69	447.10	446.30	445.50
3742277.89	447.50	447.00	445.70
3742210.09	447.80	447.00	445.90
3742142.29	447.70	446.80	445.90
3742074.49	447.70	446.70	446.00
3742006.69	447.90	446.80	445.90
3741938.89	447.90	446.90	445.80
3741871.09	447.90	446.70	445.80
3741803.29	447.90	446.70	445.70
3741735.49	447.50	446.50	445.50
3741667.69	447.30	446.00	445.10
3741599.89	447.20	446.00	445.00
3741532.09	447.30	446.10	445.00
3741464.29	447.50	446.30	445.30
3741396.49	447.80	446.60	445.60
3741328.69	448.00	446.80	445.90
3741260.89	448.50	447.10	446.00
3741193.09	449.30	447.40	446.20

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	560.70	558.10	504.00	504.00	468.20	465.00	462.40	460.00	458.40
3742481.29	560.70	560.70	560.70	537.20	504.00	465.20	462.90	461.00	458.90
3742413.49	561.60	560.70	560.70	560.70	558.10	504.00	463.50	461.90	459.50
3742345.69	560.70	504.00	588.60	588.60	587.10	504.00	464.60	462.60	460.30
3742277.89	560.70	558.10	589.20	589.20	588.60	588.60	586.90	463.30	460.80
3742210.09	588.60	589.20	602.50	602.50	600.30	588.60	588.60	586.90	461.80
3742142.29	602.50	602.50	602.50	602.50	602.50	602.50	589.20	588.60	463.10
3742074.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	588.60	588.60
3742006.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	588.60
3741938.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741871.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741803.29	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741735.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741667.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50

3741599.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741532.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741464.29	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741396.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741328.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741260.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741193.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	458.30	459.60	460.90	459.60	454.20	454.00	450.70	447.70	447.30
3742481.29	457.00	455.50	455.00	462.30	452.70	450.20	449.30	447.90	447.30
3742413.49	457.60	456.50	455.80	454.70	453.00	450.80	449.60	448.40	447.50
3742345.69	458.50	457.40	456.30	454.90	453.20	451.40	450.00	449.00	448.10
3742277.89	459.60	458.30	457.00	455.30	453.50	452.50	450.40	449.60	448.60
3742210.09	460.50	459.00	457.90	456.40	454.20	453.50	451.10	450.00	448.80
3742142.29	461.40	459.90	458.20	456.70	455.00	454.30	451.40	450.00	448.80
3742074.49	462.20	460.30	458.60	457.20	455.10	454.40	451.30	449.70	448.70
3742006.69	462.70	460.60	458.70	457.00	455.40	454.40	451.50	450.00	449.10
3741938.89	588.60	460.60	458.70	457.00	455.60	454.00	451.90	450.40	449.10
3741871.09	600.30	586.90	458.60	457.30	455.70	453.80	452.40	450.70	449.30
3741803.29	602.50	588.60	458.50	456.80	455.10	454.30	452.60	450.90	449.50
3741735.49	602.50	601.00	459.30	457.50	456.20	454.70	452.90	450.60	448.90
3741667.69	602.50	602.50	459.90	458.10	456.60	455.10	452.80	450.70	448.80
3741599.89	602.50	602.50	590.30	458.20	456.20	454.50	452.90	451.20	448.80
3741532.09	602.50	602.50	590.60	590.30	456.50	455.60	452.90	451.60	448.90
3741464.29	602.50	602.50	601.00	590.30	568.30	567.60	452.90	451.40	449.20
3741396.49	602.50	602.50	602.50	590.60	590.30	568.30	453.30	451.40	449.90
3741328.69	602.50	602.50	602.50	590.60	590.30	568.30	568.10	451.70	450.50
3741260.89	602.50	602.50	602.50	590.60	590.60	568.30	568.30	567.60	450.50
3741193.09	602.50	602.50	602.50	590.60	590.60	586.40	568.30	568.10	450.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	478105.94	478187.24	478268.54	X-COORD (METERS)
3742549.09	446.60	445.80	445.20	
3742481.29	446.40	445.70	445.20	
3742413.49	446.60	445.70	445.30	
3742345.69	447.10	446.30	445.50	
3742277.89	447.50	447.00	445.70	
3742210.09	447.80	447.00	445.90	
3742142.29	447.70	446.80	445.90	
3742074.49	447.70	446.70	446.00	
3742006.69	447.90	446.80	445.90	
3741938.89	447.90	446.90	445.80	
3741871.09	447.90	446.70	445.80	
3741803.29	447.90	446.70	445.70	
3741735.49	447.50	446.50	445.50	
3741667.69	447.30	446.00	445.10	
3741599.89	447.20	446.00	445.00	
3741532.09	447.30	446.10	445.00	
3741464.29	447.50	446.30	445.30	
3741396.49	447.80	446.60	445.60	
3741328.69	448.00	446.80	445.90	
3741260.89	448.50	447.10	446.00	
3741193.09	449.30	447.40	446.20	

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

(476872.2, 3741997.1,	477.6,	602.5,	0.0);	(476865.3, 3741816.7,	482.0,	602.5,	0.0);
(476897.4, 3741739.0,	483.7,	602.5,	0.0);	(477215.8, 3741722.3,	466.9,	602.5,	0.0);
(477402.7, 3741652.7,	463.5,	602.5,	0.0);	(477414.3, 3741347.9,	467.2,	602.5,	0.0);
(478215.2, 3741801.1,	446.3,	446.3,	0.0);	(478097.3, 3742191.0,	448.0,	448.0,	0.0);

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT 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)
L0004186	477292.9	3741871.1	-3.10
L0004198	477292.9	3741938.9	0.34
L0004199	477292.9	3741938.9	-7.38
L0004200	477292.9	3741938.9	-0.56
L0004211	477374.2	3741871.1	-2.11
L0004212	477374.2	3741871.1	-0.90

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC	Met Version: 16216
Profile file: E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL	
Surface format: FREE	
Profile format: FREE	
Surface station no.: 3171	Upper air station no.: 3190
Name: UNKNOWN	Name: UNKNOWN
Year: 2010	Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5			
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5			
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5			
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5			
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5			
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5			
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5			
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5			
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5			
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5			
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5			
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5			
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5			
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5			
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5			
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5			
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5			
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5			
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5			
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5			
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30	318.	9.1	284.9	5.5			
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	196.	9.1	283.1	5.5			
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	330.	9.1	281.4	5.5			
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	332.	9.1	280.9	5.5			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00

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

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0004172 , L0004173 , L0004174 , L0004175 , L0004176 ,
 L0004178 , L0004179 , L0004180 , L0004181 , L0004182 , L0004183 , L0004184 ,
 L0004185 , L0004186 , L0004187 , L0004188 , L0004189 , L0004190 , L0004191 , L0004192 ,
 L0004193 , L0004194 , L0004195 , L0004196 , L0004197 , L0004198 , L0004199 , . . .

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	0.00016	0.00019	0.00022	0.00026	0.00030	0.00033	0.00037	0.00046	0.00048
3742481.29	0.00016	0.00019	0.00023	0.00028	0.00032	0.00037	0.00043	0.00060	0.00065
3742413.49	0.00016	0.00019	0.00024	0.00029	0.00035	0.00042	0.00051	0.00070	0.00076
3742345.69	0.00015	0.00017	0.00025	0.00031	0.00039	0.00048	0.00059	0.00082	0.00090
3742277.89	0.00014	0.00017	0.00026	0.00033	0.00042	0.00054	0.00069	0.00097	0.00110
3742210.09	0.00015	0.00019	0.00026	0.00034	0.00044	0.00059	0.00081	0.00115	0.00139
3742142.29	0.00016	0.00020	0.00026	0.00035	0.00046	0.00065	0.00092	0.00137	0.00182
3742074.49	0.00015	0.00020	0.00027	0.00035	0.00048	0.00071	0.00104	0.00160	0.00258
3742006.69	0.00016	0.00020	0.00027	0.00036	0.00050	0.00076	0.00117	0.00191	0.00327
3741938.89	0.00016	0.00020	0.00026	0.00036	0.00050	0.00077	0.00125	0.00234	0.00511
3741871.09	0.00015	0.00020	0.00026	0.00035	0.00049	0.00074	0.00122	0.00237	0.00708
3741803.29	0.00015	0.00019	0.00025	0.00033	0.00045	0.00072	0.00116	0.00209	0.00401
3741735.49	0.00014	0.00018	0.00023	0.00030	0.00043	0.00066	0.00107	0.00189	0.00352
3741667.69	0.00013	0.00016	0.00019	0.00024	0.00039	0.00061	0.00093	0.00147	0.00246
3741599.89	0.00012	0.00013	0.00015	0.00018	0.00034	0.00051	0.00077	0.00111	0.00167
3741532.09	0.00010	0.00010	0.00012	0.00017	0.00029	0.00042	0.00061	0.00084	0.00117
3741464.29	0.00009	0.00009	0.00013	0.00018	0.00025	0.00034	0.00048	0.00064	0.00088
3741396.49	0.00008	0.00010	0.00013	0.00017	0.00022	0.00028	0.00039	0.00051	0.00070
3741328.69	0.00008	0.00010	0.00012	0.00015	0.00021	0.00026	0.00033	0.00041	0.00057
3741260.89	0.00008	0.00010	0.00011	0.00014	0.00018	0.00022	0.00028	0.00037	0.00048
3741193.09	0.00007	0.00009	0.00011	0.00013	0.00016	0.00019	0.00025	0.00032	0.00041

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0004172 , L0004173 , L0004174 , L0004175 , L0004176 ,
 L0004177 , L0004178 , L0004179 , L0004180 , L0004181 , L0004182 , L0004183 , L0004184 ,
 L0004185 , L0004186 , L0004187 , L0004188 , L0004189 , L0004190 , L0004191 , L0004192 ,
 L0004193 , L0004194 , L0004195 , L0004196 , L0004197 , L0004198 , L0004199 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	0.00038	0.00035	0.00032	0.00029	0.00026	0.00024	0.00021	0.00019	0.00017
3742481.29	0.00045	0.00040	0.00036	0.00032	0.00029	0.00026	0.00023	0.00020	0.00018
3742413.49	0.00054	0.00047	0.00042	0.00037	0.00033	0.00029	0.00025	0.00022	0.00019
3742345.69	0.00066	0.00055	0.00049	0.00043	0.00037	0.00032	0.00028	0.00024	0.00021
3742277.89	0.00083	0.00067	0.00058	0.00050	0.00042	0.00036	0.00030	0.00026	0.00022
3742210.09	0.00110	0.00083	0.00070	0.00059	0.00048	0.00040	0.00033	0.00028	0.00024

3742142.29	0.00154	0.00107	0.00087	0.00070	0.00055	0.00045	0.00036	0.00030	0.00025
3742074.49	0.00229	0.00144	0.00109	0.00083	0.00063	0.00050	0.00039	0.00032	0.00026
3742006.69	0.00356	0.00205	0.00141	0.00099	0.00072	0.00055	0.00042	0.00034	0.00028
3741938.89	0.00597	0.00317	0.00184	0.00118	0.00081	0.00059	0.00045	0.00035	0.00029
3741871.09	0.00839	0.00539	0.00235	0.00135	0.00088	0.00062	0.00047	0.00036	0.00029
3741803.29	0.00553	0.00558	0.00284	0.00145	0.00091	0.00064	0.00048	0.00037	0.00030
3741735.49	0.00584	0.00602	0.00332	0.00152	0.00094	0.00065	0.00048	0.00037	0.00030
3741667.69	0.00372	0.00392	0.00315	0.00155	0.00095	0.00066	0.00048	0.00037	0.00030
3741599.89	0.00234	0.00264	0.00259	0.00145	0.00093	0.00065	0.00048	0.00037	0.00030
3741532.09	0.00160	0.00189	0.00210	0.00128	0.00088	0.00064	0.00047	0.00037	0.00029
3741464.29	0.00117	0.00142	0.00174	0.00110	0.00081	0.00060	0.00046	0.00036	0.00029
3741396.49	0.00092	0.00112	0.00148	0.00094	0.00073	0.00056	0.00044	0.00035	0.00029
3741328.69	0.00073	0.00092	0.00128	0.00080	0.00065	0.00052	0.00042	0.00034	0.00028
3741260.89	0.00060	0.00075	0.00109	0.00067	0.00057	0.00048	0.00039	0.00033	0.00027
3741193.09	0.00050	0.00060	0.00076	0.00056	0.00050	0.00043	0.00037	0.00031	0.00026

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0004172 , L0004173 , L0004174 , L0004175 , L0004176 ,
 L0004177 , L0004178 , L0004179 , L0004180 , L0004181 , L0004182 , L0004183 , L0004184 ,
 L0004185 , L0004186 , L0004187 , L0004188 , L0004189 , L0004190 , L0004191 , L0004192 ,
 L0004193 , L0004194 , L0004195 , L0004196 , L0004197 , L0004198 , L0004199 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	478105.94	478187.24	478268.54
3742549.09	0.00015	0.00014	0.00013
3742481.29	0.00016	0.00015	0.00013
3742413.49	0.00017	0.00015	0.00014
3742345.69	0.00018	0.00016	0.00014
3742277.89	0.00019	0.00017	0.00015
3742210.09	0.00020	0.00018	0.00016
3742142.29	0.00021	0.00019	0.00016
3742074.49	0.00022	0.00019	0.00017
3742006.69	0.00023	0.00020	0.00017
3741938.89	0.00024	0.00020	0.00017
3741871.09	0.00024	0.00021	0.00018
3741803.29	0.00025	0.00021	0.00018
3741735.49	0.00025	0.00021	0.00018
3741667.69	0.00025	0.00021	0.00018
3741599.89	0.00025	0.00021	0.00018
3741532.09	0.00024	0.00021	0.00018

3741464.29	0.00024	0.00020	0.00017
3741396.49	0.00024	0.00020	0.00017
3741328.69	0.00023	0.00020	0.00017
3741260.89	0.00023	0.00019	0.00017
3741193.09	0.00022	0.00019	0.00016

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0004172 , L0004173 , L0004174 , L0004175 , L0004176 ,
 L0004177 , L0004178 , L0004179 , L0004180 , L0004181 , L0004182 , L0004183 , L0004184 ,
 L0004185 , L0004186 , L0004187 , L0004188 , L0004189 , L0004190 , L0004191 , L0004192 ,
 L0004193 , L0004194 , L0004195 , L0004196 , L0004197 , L0004198 , L0004199 , . . .

*** 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
476872.25	3741997.10	0.00034	476865.27	3741816.71	0.00031
476897.42	3741739.01	0.00032	477215.84	3741722.29	0.00186
477402.74	3741652.72	0.00347	477414.30	3741347.94	0.00087
478215.16	3741801.12	0.00020	478097.30	3742191.01	0.00021

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

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

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00839 AT (477374.24, 3741871.09, 462.40, 600.30, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00708 AT (477292.94, 3741871.09, 464.70, 602.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00602 AT (477455.54, 3741735.49, 461.00, 601.00, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00597 AT (477374.24, 3741938.89, 462.70, 588.60, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00584 AT (477374.24, 3741735.49, 463.10, 602.50, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00558 AT (477455.54, 3741803.29, 460.80, 588.60, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00553 AT (477374.24, 3741803.29, 462.80, 602.50, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00539 AT (477455.54, 3741871.09, 460.50, 586.90, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00511 AT (477292.94, 3741938.89, 464.60, 602.50, 0.00)	GC	UCART1

10TH HIGHEST VALUE IS 0.00401 AT (477292.94, 3741803.29, 464.90, 602.50, 0.00) GC UCART1

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

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2025-38 *** 18:09:01
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*** 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 8 Warning Message(s)
A Total of 2028 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 978 Calm Hours Identified

A Total of 1050 Missing Hours Identified (2.40 Percent)

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

***** WARNING MESSAGES *****
SO W320 651 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 652 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 653 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 654 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 822 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 822 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 14010101
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 2 year gap

*** AERMOD Finishes Successfully ***

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** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 1/19/2022
** File: C:\Lakes\19365 Harvill Trailer Storage Yd - 2nd 14\19365 Harvill Trailer Storage Yd - 2nd 14.ADI
**
*****
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**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE Harvill revised with new site plan
  TITLETWO DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2189641 Riverside_County
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "19365 Harvill Trailer Storage Yd - 2nd 14.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 Onsite truck travel
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 7.6E-06
** Elevated
** Building Height = 8.15
** SZINIT = 3.79
** Nodes = 21
** 477330.574, 3741786.592, 463.59, 3.66, 4.00
** 477329.931, 3741871.510, 463.44, 3.66, 4.00

```

** 477325.856, 3741876.871, 463.31, 3.66, 4.00
 ** 477274.820, 3741876.442, 465.55, 3.66, 4.00
 ** 477267.958, 3741880.516, 465.54, 3.66, 4.00
 ** 477267.958, 3741938.200, 465.52, 3.66, 4.00
 ** 477271.175, 3741942.275, 465.40, 3.66, 4.00
 ** 477278.037, 3741943.776, 464.94, 3.66, 4.00
 ** 477285.756, 3741943.132, 464.77, 3.66, 4.00
 ** 477293.047, 3741940.130, 464.69, 3.66, 4.00
 ** 477406.485, 3741853.497, 461.57, 3.66, 4.00
 ** 477409.916, 3741852.425, 461.54, 3.66, 4.00
 ** 477437.579, 3741851.353, 460.94, 3.66, 4.00
 ** 477440.581, 3741850.066, 460.92, 3.66, 4.00
 ** 477442.296, 3741847.064, 460.94, 3.66, 4.00
 ** 477443.583, 3741837.629, 460.93, 3.66, 4.00
 ** 477443.154, 3741827.336, 460.98, 3.66, 4.00
 ** 477443.154, 3741809.966, 461.14, 3.66, 4.00
 ** 477442.082, 3741801.818, 461.14, 3.66, 4.00
 ** 477439.938, 3741795.813, 461.12, 3.66, 4.00
 ** 477439.938, 3741786.807, 461.10, 3.66, 4.00

LOCATION	VOLUME	477330.541	3741790.887	463.78
LOCATION L0004746	VOLUME	477330.541	3741790.887	463.78
LOCATION L0004747	VOLUME	477330.476	3741799.477	463.86
LOCATION L0004748	VOLUME	477330.411	3741808.067	463.94
LOCATION L0004749	VOLUME	477330.346	3741816.657	463.93
LOCATION L0004750	VOLUME	477330.281	3741825.246	463.90
LOCATION L0004751	VOLUME	477330.216	3741833.836	463.87
LOCATION L0004752	VOLUME	477330.151	3741842.426	463.83
LOCATION L0004753	VOLUME	477330.086	3741851.016	463.76
LOCATION L0004754	VOLUME	477330.021	3741859.605	463.68
LOCATION L0004755	VOLUME	477329.956	3741868.195	463.60
LOCATION L0004756	VOLUME	477326.739	3741875.710	463.66
LOCATION L0004757	VOLUME	477318.725	3741876.811	463.91
LOCATION L0004758	VOLUME	477310.135	3741876.739	464.17
LOCATION L0004759	VOLUME	477301.546	3741876.667	464.41
LOCATION L0004760	VOLUME	477292.956	3741876.595	464.65
LOCATION L0004761	VOLUME	477284.366	3741876.522	464.89
LOCATION L0004762	VOLUME	477275.777	3741876.450	465.13
LOCATION L0004763	VOLUME	477268.256	3741880.339	465.32
LOCATION L0004764	VOLUME	477267.958	3741888.759	465.28
LOCATION L0004765	VOLUME	477267.958	3741897.349	465.23
LOCATION L0004766	VOLUME	477267.958	3741905.939	465.23
LOCATION L0004767	VOLUME	477267.958	3741914.529	465.28
LOCATION L0004768	VOLUME	477267.958	3741923.119	465.34
LOCATION L0004769	VOLUME	477267.958	3741931.709	465.39
LOCATION L0004770	VOLUME	477269.259	3741939.848	465.35
LOCATION L0004771	VOLUME	477276.546	3741943.450	465.13
LOCATION L0004772	VOLUME	477285.076	3741943.189	464.87
LOCATION L0004773	VOLUME	477293.065	3741940.117	464.62
LOCATION L0004774	VOLUME	477299.892	3741934.903	464.40
LOCATION L0004775	VOLUME	477306.719	3741929.689	464.18
LOCATION L0004776	VOLUME	477313.546	3741924.476	463.97

LOCATION	VOLUME	477320.372	3741919.262	463.80
LOCATION L0004777	VOLUME	477320.372	3741919.262	463.80
LOCATION L0004778	VOLUME	477327.199	3741914.048	463.62
LOCATION L0004779	VOLUME	477334.026	3741908.835	463.42
LOCATION L0004780	VOLUME	477340.853	3741903.621	463.21
LOCATION L0004781	VOLUME	477347.680	3741898.407	463.03
LOCATION L0004782	VOLUME	477354.506	3741893.194	462.85
LOCATION L0004783	VOLUME	477361.333	3741887.980	462.67
LOCATION L0004784	VOLUME	477368.160	3741882.766	462.51
LOCATION L0004785	VOLUME	477374.987	3741877.553	462.36
LOCATION L0004786	VOLUME	477381.814	3741872.339	462.20
LOCATION L0004787	VOLUME	477388.641	3741867.125	462.06
LOCATION L0004788	VOLUME	477395.467	3741861.911	461.94
LOCATION L0004789	VOLUME	477402.294	3741856.698	461.82
LOCATION L0004790	VOLUME	477409.651	3741852.508	461.66
LOCATION L0004791	VOLUME	477418.222	3741852.103	461.47
LOCATION L0004792	VOLUME	477426.806	3741851.770	461.27
LOCATION L0004793	VOLUME	477435.389	3741851.438	461.07
LOCATION L0004794	VOLUME	477442.135	3741847.346	460.92
LOCATION L0004795	VOLUME	477443.413	3741838.875	460.90
LOCATION L0004796	VOLUME	477443.278	3741830.303	460.97
LOCATION L0004797	VOLUME	477443.154	3741821.715	461.03
LOCATION L0004798	VOLUME	477443.154	3741813.125	461.08
LOCATION L0004799	VOLUME	477442.446	3741804.582	461.12
LOCATION L0004800	VOLUME	477440.131	3741796.354	461.15
LOCATION L0004801	VOLUME	477439.938	3741787.797	461.14

** End of LINE VOLUME Source ID = SLINE1

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Offsite - Orange Avenue to Harvill Ave

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 1.54E-06

** Elevated

** Vertical Dimension = 6.99

** SZINIT = 1.62

** Nodes = 2

** 477329.923, 3741778.717, 463.57, 3.66, 4.00

** 477515.846, 3741778.073, 459.43, 3.66, 4.00

** -----

LOCATION L0004858	VOLUME	477334.218	3741778.702	463.57
LOCATION L0004859	VOLUME	477342.808	3741778.672	463.35
LOCATION L0004860	VOLUME	477351.398	3741778.642	463.14
LOCATION L0004861	VOLUME	477359.988	3741778.613	462.93
LOCATION L0004862	VOLUME	477368.578	3741778.583	462.74
LOCATION L0004863	VOLUME	477377.168	3741778.553	462.56
LOCATION L0004864	VOLUME	477385.758	3741778.523	462.38
LOCATION L0004865	VOLUME	477394.348	3741778.494	462.19
LOCATION L0004866	VOLUME	477402.937	3741778.464	461.99
LOCATION L0004867	VOLUME	477411.527	3741778.434	461.80

LOCATION	VOLUME	477420.117	3741778.405	461.60
LOCATION L0004868	VOLUME	477420.117	3741778.405	461.60
LOCATION L0004869	VOLUME	477428.707	3741778.375	461.39
LOCATION L0004870	VOLUME	477437.297	3741778.345	461.18
LOCATION L0004871	VOLUME	477445.887	3741778.315	460.98
LOCATION L0004872	VOLUME	477454.477	3741778.286	460.80
LOCATION L0004873	VOLUME	477463.067	3741778.256	460.61
LOCATION L0004874	VOLUME	477471.657	3741778.226	460.45
LOCATION L0004875	VOLUME	477480.247	3741778.197	460.33
LOCATION L0004876	VOLUME	477488.837	3741778.167	460.21
LOCATION L0004877	VOLUME	477497.427	3741778.137	460.03
LOCATION L0004878	VOLUME	477506.017	3741778.107	459.79
LOCATION L0004879	VOLUME	477514.607	3741778.078	459.55

** End of LINE VOLUME Source ID = SLINE2

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE3

** DESCRSRC Off-site - Harvill Ave south of Orange Ave

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 9.56E-08

** Elevated

** Vertical Dimension = 6.99

** SZINIT = 1.62

** Nodes = 6

** 477516.848, 3741771.107, 459.44, 3.66, 4.00

** 477519.765, 3741749.232, 459.67, 3.66, 4.00

** 477519.218, 3741712.774, 459.81, 3.66, 4.00

** 477520.592, 3741591.131, 461.14, 3.66, 4.00

** 477518.826, 3741215.954, 463.62, 3.66, 4.00

** 477520.592, 3741196.022, 463.90, 3.66, 4.00

** -----

LOCATION L0004902	VOLUME	477517.416	3741766.850	459.55
LOCATION L0004903	VOLUME	477518.551	3741758.335	459.59
LOCATION L0004904	VOLUME	477519.687	3741749.820	459.63
LOCATION L0004905	VOLUME	477519.645	3741741.236	459.67
LOCATION L0004906	VOLUME	477519.516	3741732.647	459.71
LOCATION L0004907	VOLUME	477519.388	3741724.058	459.76
LOCATION L0004908	VOLUME	477519.259	3741715.469	459.80
LOCATION L0004909	VOLUME	477519.285	3741706.880	459.89
LOCATION L0004910	VOLUME	477519.382	3741698.291	459.97
LOCATION L0004911	VOLUME	477519.479	3741689.701	460.05
LOCATION L0004912	VOLUME	477519.576	3741681.112	460.14
LOCATION L0004913	VOLUME	477519.673	3741672.522	460.24
LOCATION L0004914	VOLUME	477519.770	3741663.933	460.34
LOCATION L0004915	VOLUME	477519.867	3741655.343	460.44
LOCATION L0004916	VOLUME	477519.964	3741646.754	460.54
LOCATION L0004917	VOLUME	477520.061	3741638.164	460.63
LOCATION L0004918	VOLUME	477520.158	3741629.575	460.72
LOCATION L0004919	VOLUME	477520.255	3741620.986	460.81
LOCATION L0004920	VOLUME	477520.352	3741612.396	460.89

LOCATION	L0004921	VOLUME	477520.449	3741603.807	460.97
LOCATION	L0004922	VOLUME	477520.546	3741595.217	461.05
LOCATION	L0004923	VOLUME	477520.571	3741586.627	461.13
LOCATION	L0004924	VOLUME	477520.531	3741578.038	461.21
LOCATION	L0004925	VOLUME	477520.490	3741569.448	461.28
LOCATION	L0004926	VOLUME	477520.450	3741560.858	461.36
LOCATION	L0004927	VOLUME	477520.409	3741552.268	461.44
LOCATION	L0004928	VOLUME	477520.369	3741543.678	461.52
LOCATION	L0004929	VOLUME	477520.328	3741535.088	461.60
LOCATION	L0004930	VOLUME	477520.288	3741526.498	461.67
LOCATION	L0004931	VOLUME	477520.247	3741517.908	461.75
LOCATION	L0004932	VOLUME	477520.207	3741509.318	461.83
LOCATION	L0004933	VOLUME	477520.167	3741500.728	461.90
LOCATION	L0004934	VOLUME	477520.126	3741492.139	461.97
LOCATION	L0004935	VOLUME	477520.086	3741483.549	462.05
LOCATION	L0004936	VOLUME	477520.045	3741474.959	462.12
LOCATION	L0004937	VOLUME	477520.005	3741466.369	462.19
LOCATION	L0004938	VOLUME	477519.964	3741457.779	462.26
LOCATION	L0004939	VOLUME	477519.924	3741449.189	462.34
LOCATION	L0004940	VOLUME	477519.884	3741440.599	462.41
LOCATION	L0004941	VOLUME	477519.843	3741432.009	462.50
LOCATION	L0004942	VOLUME	477519.803	3741423.419	462.60
LOCATION	L0004943	VOLUME	477519.762	3741414.829	462.70
LOCATION	L0004944	VOLUME	477519.722	3741406.239	462.80
LOCATION	L0004945	VOLUME	477519.681	3741397.650	462.89
LOCATION	L0004946	VOLUME	477519.641	3741389.060	462.99
LOCATION	L0004947	VOLUME	477519.600	3741380.470	463.08
LOCATION	L0004948	VOLUME	477519.560	3741371.880	463.15
LOCATION	L0004949	VOLUME	477519.520	3741363.290	463.21
LOCATION	L0004950	VOLUME	477519.479	3741354.700	463.26
LOCATION	L0004951	VOLUME	477519.439	3741346.110	463.32
LOCATION	L0004952	VOLUME	477519.398	3741337.520	463.40
LOCATION	L0004953	VOLUME	477519.358	3741328.930	463.48
LOCATION	L0004954	VOLUME	477519.317	3741320.340	463.56
LOCATION	L0004955	VOLUME	477519.277	3741311.751	463.65
LOCATION	L0004956	VOLUME	477519.237	3741303.161	463.75
LOCATION	L0004957	VOLUME	477519.196	3741294.571	463.85
LOCATION	L0004958	VOLUME	477519.156	3741285.981	463.95
LOCATION	L0004959	VOLUME	477519.115	3741277.391	463.95
LOCATION	L0004960	VOLUME	477519.075	3741268.801	463.95
LOCATION	L0004961	VOLUME	477519.034	3741260.211	463.95
LOCATION	L0004962	VOLUME	477518.994	3741251.621	463.92
LOCATION	L0004963	VOLUME	477518.954	3741243.031	463.81
LOCATION	L0004964	VOLUME	477518.913	3741234.441	463.71
LOCATION	L0004965	VOLUME	477518.873	3741225.851	463.61
LOCATION	L0004966	VOLUME	477518.832	3741217.262	463.63
LOCATION	L0004967	VOLUME	477519.469	3741208.700	463.59
LOCATION	L0004968	VOLUME	477520.227	3741200.144	463.53

** End of LINE VOLUME Source ID = SLINE3

**

** Line Source Represented by Adjacent Volume Sources


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** LINE VOLUME Source ID = SLINE4
** DESCRSRC Off-site - Harvill Avenue north of Orange Avenue
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.57E-06
** Elevated
** Vertical Dimension = 6.99
** SZINIT = 1.62
** Nodes = 22
** 477254.938, 3742548.264, 459.13, 3.66, 4.00
** 477256.170, 3742178.029, 463.37, 3.66, 4.00
** 477258.225, 3742141.868, 463.98, 3.66, 4.00
** 477260.690, 3742125.432, 464.16, 3.66, 4.00
** 477264.800, 3742109.817, 464.26, 3.66, 4.00
** 477275.483, 3742074.067, 464.82, 3.66, 4.00
** 477290.276, 3742045.303, 464.61, 3.66, 4.00
** 477309.178, 3742014.485, 464.12, 3.66, 4.00
** 477333.011, 3741987.364, 463.67, 3.66, 4.00
** 477343.284, 3741977.913, 463.57, 3.66, 4.00
** 477350.270, 3741971.749, 463.23, 3.66, 4.00
** 477368.761, 3741957.367, 462.88, 3.66, 4.00
** 477394.649, 3741939.698, 462.23, 3.66, 4.00
** 477415.195, 3741925.727, 461.55, 3.66, 4.00
** 477435.740, 3741909.701, 460.87, 3.66, 4.00
** 477448.890, 3741898.606, 460.79, 3.66, 4.00
** 477461.628, 3741884.224, 460.22, 3.66, 4.00
** 477472.312, 3741871.897, 460.19, 3.66, 4.00
** 477480.530, 3741859.980, 459.74, 3.66, 4.00
** 477487.927, 3741846.831, 459.63, 3.66, 4.00
** 477501.487, 3741821.354, 459.45, 3.66, 4.00
** 477514.888, 3741786.059, 459.40, 3.66, 4.00

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LOCATION L0005036    VOLUME  477254.952 3742543.969 459.25
LOCATION L0005037    VOLUME  477254.980 3742535.379 459.31
LOCATION L0005038    VOLUME  477255.009 3742526.789 459.37
LOCATION L0005039    VOLUME  477255.038 3742518.199 459.43
LOCATION L0005040    VOLUME  477255.066 3742509.609 459.52
LOCATION L0005041    VOLUME  477255.095 3742501.019 459.61
LOCATION L0005042    VOLUME  477255.123 3742492.429 459.70
LOCATION L0005043    VOLUME  477255.152 3742483.839 459.80
LOCATION L0005044    VOLUME  477255.181 3742475.249 459.89
LOCATION L0005045    VOLUME  477255.209 3742466.659 459.99
LOCATION L0005046    VOLUME  477255.238 3742458.070 460.08
LOCATION L0005047    VOLUME  477255.266 3742449.480 460.17
LOCATION L0005048    VOLUME  477255.295 3742440.890 460.26
LOCATION L0005049    VOLUME  477255.324 3742432.300 460.34
LOCATION L0005050    VOLUME  477255.352 3742423.710 460.42
LOCATION L0005051    VOLUME  477255.381 3742415.120 460.50
LOCATION L0005052    VOLUME  477255.409 3742406.530 460.57
LOCATION L0005053    VOLUME  477255.438 3742397.940 460.64

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LOCATION	L0005054	VOLUME	477255.467	3742389.350	460.72
LOCATION	L0005055	VOLUME	477255.495	3742380.760	460.80
LOCATION	L0005056	VOLUME	477255.524	3742372.170	460.89
LOCATION	L0005057	VOLUME	477255.552	3742363.580	460.97
LOCATION	L0005058	VOLUME	477255.581	3742354.990	461.07
LOCATION	L0005059	VOLUME	477255.610	3742346.400	461.17
LOCATION	L0005060	VOLUME	477255.638	3742337.810	461.27
LOCATION	L0005061	VOLUME	477255.667	3742329.220	461.36
LOCATION	L0005062	VOLUME	477255.695	3742320.630	461.45
LOCATION	L0005063	VOLUME	477255.724	3742312.040	461.53
LOCATION	L0005064	VOLUME	477255.753	3742303.450	461.61
LOCATION	L0005065	VOLUME	477255.781	3742294.860	461.69
LOCATION	L0005066	VOLUME	477255.810	3742286.270	461.77
LOCATION	L0005067	VOLUME	477255.838	3742277.681	461.85
LOCATION	L0005068	VOLUME	477255.867	3742269.091	461.93
LOCATION	L0005069	VOLUME	477255.896	3742260.501	462.04
LOCATION	L0005070	VOLUME	477255.924	3742251.911	462.15
LOCATION	L0005071	VOLUME	477255.953	3742243.321	462.26
LOCATION	L0005072	VOLUME	477255.981	3742234.731	462.39
LOCATION	L0005073	VOLUME	477256.010	3742226.141	462.54
LOCATION	L0005074	VOLUME	477256.039	3742217.551	462.69
LOCATION	L0005075	VOLUME	477256.067	3742208.961	462.84
LOCATION	L0005076	VOLUME	477256.096	3742200.371	463.04
LOCATION	L0005077	VOLUME	477256.124	3742191.781	463.25
LOCATION	L0005078	VOLUME	477256.153	3742183.191	463.45
LOCATION	L0005079	VOLUME	477256.365	3742174.607	463.62
LOCATION	L0005080	VOLUME	477256.852	3742166.030	463.77
LOCATION	L0005081	VOLUME	477257.339	3742157.454	463.91
LOCATION	L0005082	VOLUME	477257.827	3742148.878	464.05
LOCATION	L0005083	VOLUME	477258.458	3742140.317	464.13
LOCATION	L0005084	VOLUME	477259.732	3742131.822	464.18
LOCATION	L0005085	VOLUME	477261.232	3742123.373	464.21
LOCATION	L0005086	VOLUME	477263.418	3742115.066	464.24
LOCATION	L0005087	VOLUME	477265.705	3742106.787	464.35
LOCATION	L0005088	VOLUME	477268.165	3742098.557	464.44
LOCATION	L0005089	VOLUME	477270.624	3742090.327	464.53
LOCATION	L0005090	VOLUME	477273.084	3742082.096	464.59
LOCATION	L0005091	VOLUME	477275.579	3742073.880	464.63
LOCATION	L0005092	VOLUME	477279.508	3742066.241	464.62
LOCATION	L0005093	VOLUME	477283.437	3742058.603	464.62
LOCATION	L0005094	VOLUME	477287.365	3742050.964	464.59
LOCATION	L0005095	VOLUME	477291.440	3742043.407	464.57
LOCATION	L0005096	VOLUME	477295.931	3742036.084	464.53
LOCATION	L0005097	VOLUME	477300.422	3742028.762	464.48
LOCATION	L0005098	VOLUME	477304.913	3742021.439	464.40
LOCATION	L0005099	VOLUME	477309.463	3742014.160	464.29
LOCATION	L0005100	VOLUME	477315.134	3742007.708	464.17
LOCATION	L0005101	VOLUME	477320.804	3742001.255	464.07
LOCATION	L0005102	VOLUME	477326.474	3741994.803	463.95
LOCATION	L0005103	VOLUME	477332.145	3741988.350	463.79
LOCATION	L0005104	VOLUME	477338.367	3741982.437	463.62

LOCATION	L0005105	VOLUME	477344.715	3741976.651	463.45
LOCATION	L0005106	VOLUME	477351.203	3741971.024	463.28
LOCATION	L0005107	VOLUME	477357.983	3741965.750	463.09
LOCATION	L0005108	VOLUME	477364.764	3741960.476	462.90
LOCATION	L0005109	VOLUME	477371.674	3741955.380	462.74
LOCATION	L0005110	VOLUME	477378.768	3741950.537	462.57
LOCATION	L0005111	VOLUME	477385.863	3741945.694	462.40
LOCATION	L0005112	VOLUME	477392.958	3741940.852	462.22
LOCATION	L0005113	VOLUME	477400.060	3741936.019	462.02
LOCATION	L0005114	VOLUME	477407.163	3741931.188	461.81
LOCATION	L0005115	VOLUME	477414.266	3741926.358	461.61
LOCATION	L0005116	VOLUME	477421.083	3741921.134	461.42
LOCATION	L0005117	VOLUME	477427.856	3741915.851	461.21
LOCATION	L0005118	VOLUME	477434.629	3741910.568	461.01
LOCATION	L0005119	VOLUME	477441.228	3741905.071	460.80
LOCATION	L0005120	VOLUME	477447.794	3741899.531	460.65
LOCATION	L0005121	VOLUME	477453.634	3741893.250	460.53
LOCATION	L0005122	VOLUME	477459.330	3741886.819	460.41
LOCATION	L0005123	VOLUME	477464.984	3741880.352	460.27
LOCATION	L0005124	VOLUME	477470.610	3741873.861	460.12
LOCATION	L0005125	VOLUME	477475.713	3741866.965	460.00
LOCATION	L0005126	VOLUME	477480.582	3741859.889	459.90
LOCATION	L0005127	VOLUME	477484.793	3741852.402	459.80
LOCATION	L0005128	VOLUME	477488.960	3741844.890	459.69
LOCATION	L0005129	VOLUME	477492.996	3741837.308	459.59
LOCATION	L0005130	VOLUME	477497.032	3741829.725	459.54
LOCATION	L0005131	VOLUME	477501.068	3741822.142	459.46
LOCATION	L0005132	VOLUME	477504.219	3741814.158	459.39
LOCATION	L0005133	VOLUME	477507.268	3741806.127	459.34
LOCATION	L0005134	VOLUME	477510.317	3741798.097	459.34
LOCATION	L0005135	VOLUME	477513.366	3741790.066	459.37
**	End of LINE	VOLUME	Source ID =	SLINE4	
LOCATION	STCK1	POINT	477326.040	3741793.170	463.930
**	DESCRSRC	West entrance/exit			
LOCATION	STCK2	POINT	477332.784	3741793.350	463.740
**	DESCRSRC	West entrance/exit			
LOCATION	STCK3	POINT	477435.450	3741790.797	461.260
**	DESCRSRC	West entrance/exit			
LOCATION	STCK4	POINT	477442.927	3741790.615	461.070
**	DESCRSRC	West entrance/exit			
**	Source Parameters	**			
**	LINE	VOLUME	Source ID =	SLINE1	
SRCPARAM	L0004746	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004747	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004748	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004749	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004750	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004751	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004752	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004753	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004754	0.0000001357	3.66	4.00	3.79

SRCPARAM	L0004755	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004756	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004757	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004758	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004759	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004760	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004761	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004762	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004763	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004764	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004765	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004766	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004767	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004768	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004769	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004770	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004771	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004772	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004773	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004774	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004775	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004776	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004777	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004778	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004779	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004780	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004781	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004782	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004783	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004784	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004785	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004786	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004787	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004788	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004789	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004790	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004791	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004792	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004793	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004794	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004795	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004796	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004797	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004798	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004799	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004800	0.0000001357	3.66	4.00	3.79
SRCPARAM	L0004801	0.0000001357	3.66	4.00	3.79

**

 ** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0004858	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004859	0.00000007	3.66	4.00	1.62

SRCPARAM	L0004860	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004861	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004862	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004863	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004864	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004865	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004866	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004867	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004868	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004869	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004870	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004871	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004872	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004873	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004874	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004875	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004876	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004877	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004878	0.00000007	3.66	4.00	1.62
SRCPARAM	L0004879	0.00000007	3.66	4.00	1.62

**

** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0004902	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004903	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004904	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004905	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004906	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004907	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004908	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004909	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004910	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004911	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004912	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004913	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004914	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004915	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004916	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004917	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004918	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004919	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004920	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004921	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004922	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004923	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004924	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004925	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004926	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004927	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004928	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004929	0.00000001427	3.66	4.00	1.62
SRCPARAM	L0004930	0.00000001427	3.66	4.00	1.62

SRCPARAM	L0004931	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004932	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004933	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004934	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004935	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004936	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004937	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004938	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004939	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004940	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004941	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004942	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004943	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004944	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004945	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004946	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004947	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004948	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004949	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004950	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004951	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004952	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004953	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004954	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004955	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004956	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004957	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004958	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004959	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004960	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004961	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004962	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004963	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004964	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004965	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004966	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004967	0.000000001427	3.66	4.00	1.62
SRCPARAM	L0004968	0.000000001427	3.66	4.00	1.62

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** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0005036	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005037	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005038	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005039	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005040	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005041	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005042	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005043	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005044	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005045	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005046	0.0000000357	3.66	4.00	1.62

SRCPARAM	L0005098	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005099	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005100	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005101	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005102	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005103	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005104	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005105	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005106	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005107	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005108	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005109	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005110	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005111	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005112	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005113	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005114	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005115	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005116	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005117	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005118	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005119	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005120	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005121	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005122	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005123	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005124	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005125	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005126	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005127	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005128	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005129	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005130	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005131	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005132	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005133	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005134	0.0000000357	3.66	4.00	1.62
SRCPARAM	L0005135	0.0000000357	3.66	4.00	1.62

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SRCPARAM	STCK1	0.0000239	3.658	366.000	51.90000	0.100
SRCPARAM	STCK2	0.0000239	3.658	366.000	51.90000	0.100
SRCPARAM	STCK3	0.0000239	3.658	366.000	51.90000	0.100
SRCPARAM	STCK4	0.0000239	3.658	366.000	51.90000	0.100

** Building Downwash **

BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDHGT	STCK1	0.00	0.00	0.00	0.00	0.00	0.00

BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK3	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK3	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK3	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK4	39.74	47.36	50.36	46.41	44.28	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLN	STCK4	0.00	0.00	0.00	0.00	32.39	35.15
BUILDLN	STCK4	0.00	0.00	0.00	46.41	44.28	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	-46.11	-51.38
XBADJ	STCK3	-56.53	-62.09	-64.16	-61.59	-58.75	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK3	0.00	0.00	0.00	0.00	13.72	16.23
XBADJ	STCK3	16.79	14.73	13.81	15.18	14.47	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	-53.21	-57.95
XBADJ	STCK4	-62.38	-67.04	-68.07	-64.32	-60.24	0.00

XBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK4	0.00	0.00	0.00	0.00	20.81	22.80
XBADJ	STCK4	0.00	0.00	0.00	17.91	15.95	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	25.00	19.43
YBADJ	STCK3	13.26	6.69	-0.08	-6.85	-13.41	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK3	0.00	0.00	0.00	0.00	-25.00	-19.43
YBADJ	STCK3	-13.26	-6.69	0.08	6.85	13.41	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	22.62	15.85
YBADJ	STCK4	8.60	1.09	-6.46	-13.81	-20.74	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK4	0.00	0.00	0.00	0.00	-22.62	-15.85
YBADJ	STCK4	0.00	0.00	0.00	13.81	20.74	0.00

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "19365 Harvill Trailer Storage Yd - 2nd 14.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

```

SURFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.SFC"
PROFFILE "E:\New MET data\PERI_V9_ADJU\PERI_v9.PFL"
SURFDATA 3171 2010
UAIRDATA 3190 2010
SITEDATA 99999 2010
PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
PLOTFILE PERIOD ALL "19365 HARVILL TRAILER STORAGE YD - 2ND 14.AD\PE00GALL.PLT" 31
SUMMFILE "19365 Harvill Trailer Storage Yd - 2nd 14.sum"
OU FINISHED

```

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

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

```

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

```

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

***** WARNING MESSAGES *****

```

SO W320    651      PPARAM: Input Parameter May Be Out-of-Range for Parameter      VS
SO W320    652      PPARAM: Input Parameter May Be Out-of-Range for Parameter      VS
SO W320    653      PPARAM: Input Parameter May Be Out-of-Range for Parameter      VS
SO W320    654      PPARAM: Input Parameter May Be Out-of-Range for Parameter      VS
ME W186    822      MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used          0.50
ME W187    822      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

```

 *** SETUP Finishes Successfully ***

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 ***
*** MODELOPTs:   RegDFAULT CONC ELEV URBAN ADJ_U*

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*** MODEL SETUP OPTIONS SUMMARY ***

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

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 249 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

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

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes: 249 Source(s); 1 Source Group(s); and 449 Receptor(s)

with: 4 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 245 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) = 442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

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

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

**Detailed Error/Message File: 19365 Harvill Trailer Storage Yd - 2nd 14.err
 **File for Summary of Results: 19365 Harvill Trailer Storage Yd - 2nd 14.sum

*** AERMOD - VERSION 21112 *** ** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** ** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.23900E-04	477326.0	3741793.2	463.9	3.66	366.00	51.90	0.10	NO	YES	NO	
STCK2	0	0.23900E-04	477332.8	3741793.3	463.7	3.66	366.00	51.90	0.10	NO	YES	NO	
STCK3	0	0.23900E-04	477435.5	3741790.8	461.3	3.66	366.00	51.90	0.10	YES	YES	NO	
STCK4	0	0.23900E-04	477442.9	3741790.6	461.1	3.66	366.00	51.90	0.10	YES	YES	NO	

*** AERMOD - VERSION 21112 *** ** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** ** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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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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L0004746	0	0.13570E-06	477330.5	3741790.9	463.8	3.66	4.00	3.79	YES
L0004747	0	0.13570E-06	477330.5	3741799.5	463.9	3.66	4.00	3.79	YES
L0004748	0	0.13570E-06	477330.4	3741808.1	463.9	3.66	4.00	3.79	YES
L0004749	0	0.13570E-06	477330.3	3741816.7	463.9	3.66	4.00	3.79	YES
L0004750	0	0.13570E-06	477330.3	3741825.2	463.9	3.66	4.00	3.79	YES
L0004751	0	0.13570E-06	477330.2	3741833.8	463.9	3.66	4.00	3.79	YES
L0004752	0	0.13570E-06	477330.2	3741842.4	463.8	3.66	4.00	3.79	YES
L0004753	0	0.13570E-06	477330.1	3741851.0	463.8	3.66	4.00	3.79	YES
L0004754	0	0.13570E-06	477330.0	3741859.6	463.7	3.66	4.00	3.79	YES
L0004755	0	0.13570E-06	477330.0	3741868.2	463.6	3.66	4.00	3.79	YES
L0004756	0	0.13570E-06	477326.7	3741875.7	463.7	3.66	4.00	3.79	YES
L0004757	0	0.13570E-06	477318.7	3741876.8	463.9	3.66	4.00	3.79	YES
L0004758	0	0.13570E-06	477310.1	3741876.7	464.2	3.66	4.00	3.79	YES
L0004759	0	0.13570E-06	477301.5	3741876.7	464.4	3.66	4.00	3.79	YES
L0004760	0	0.13570E-06	477293.0	3741876.6	464.7	3.66	4.00	3.79	YES
L0004761	0	0.13570E-06	477284.4	3741876.5	464.9	3.66	4.00	3.79	YES
L0004762	0	0.13570E-06	477275.8	3741876.4	465.1	3.66	4.00	3.79	YES
L0004763	0	0.13570E-06	477268.3	3741880.3	465.3	3.66	4.00	3.79	YES
L0004764	0	0.13570E-06	477268.0	3741888.8	465.3	3.66	4.00	3.79	YES
L0004765	0	0.13570E-06	477268.0	3741897.3	465.2	3.66	4.00	3.79	YES
L0004766	0	0.13570E-06	477268.0	3741905.9	465.2	3.66	4.00	3.79	YES
L0004767	0	0.13570E-06	477268.0	3741914.5	465.3	3.66	4.00	3.79	YES
L0004768	0	0.13570E-06	477268.0	3741923.1	465.3	3.66	4.00	3.79	YES
L0004769	0	0.13570E-06	477268.0	3741931.7	465.4	3.66	4.00	3.79	YES
L0004770	0	0.13570E-06	477269.3	3741939.8	465.4	3.66	4.00	3.79	YES
L0004771	0	0.13570E-06	477276.5	3741943.4	465.1	3.66	4.00	3.79	YES
L0004772	0	0.13570E-06	477285.1	3741943.2	464.9	3.66	4.00	3.79	YES
L0004773	0	0.13570E-06	477293.1	3741940.1	464.6	3.66	4.00	3.79	YES
L0004774	0	0.13570E-06	477299.9	3741934.9	464.4	3.66	4.00	3.79	YES
L0004775	0	0.13570E-06	477306.7	3741929.7	464.2	3.66	4.00	3.79	YES
L0004776	0	0.13570E-06	477313.5	3741924.5	464.0	3.66	4.00	3.79	YES
L0004777	0	0.13570E-06	477320.4	3741919.3	463.8	3.66	4.00	3.79	YES
L0004778	0	0.13570E-06	477327.2	3741914.0	463.6	3.66	4.00	3.79	YES
L0004779	0	0.13570E-06	477334.0	3741908.8	463.4	3.66	4.00	3.79	YES
L0004780	0	0.13570E-06	477340.9	3741903.6	463.2	3.66	4.00	3.79	YES
L0004781	0	0.13570E-06	477347.7	3741898.4	463.0	3.66	4.00	3.79	YES
L0004782	0	0.13570E-06	477354.5	3741893.2	462.9	3.66	4.00	3.79	YES
L0004783	0	0.13570E-06	477361.3	3741888.0	462.7	3.66	4.00	3.79	YES
L0004784	0	0.13570E-06	477368.2	3741882.8	462.5	3.66	4.00	3.79	YES
L0004785	0	0.13570E-06	477375.0	3741877.6	462.4	3.66	4.00	3.79	YES

*** AERMOD - VERSION 21112 ***
 *** AERMET - VERSION 16216 ***

*** Harvill revised with new site plan ***
 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR	VARY
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ID	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0004786	0	0.13570E-06	477381.8	3741872.3	462.2	3.66	4.00	3.79	YES
L0004787	0	0.13570E-06	477388.6	3741867.1	462.1	3.66	4.00	3.79	YES
L0004788	0	0.13570E-06	477395.5	3741861.9	461.9	3.66	4.00	3.79	YES
L0004789	0	0.13570E-06	477402.3	3741856.7	461.8	3.66	4.00	3.79	YES
L0004790	0	0.13570E-06	477409.7	3741852.5	461.7	3.66	4.00	3.79	YES
L0004791	0	0.13570E-06	477418.2	3741852.1	461.5	3.66	4.00	3.79	YES
L0004792	0	0.13570E-06	477426.8	3741851.8	461.3	3.66	4.00	3.79	YES
L0004793	0	0.13570E-06	477435.4	3741851.4	461.1	3.66	4.00	3.79	YES
L0004794	0	0.13570E-06	477442.1	3741847.3	460.9	3.66	4.00	3.79	YES
L0004795	0	0.13570E-06	477443.4	3741838.9	460.9	3.66	4.00	3.79	YES
L0004796	0	0.13570E-06	477443.3	3741830.3	461.0	3.66	4.00	3.79	YES
L0004797	0	0.13570E-06	477443.2	3741821.7	461.0	3.66	4.00	3.79	YES
L0004798	0	0.13570E-06	477443.2	3741813.1	461.1	3.66	4.00	3.79	YES
L0004799	0	0.13570E-06	477442.4	3741804.6	461.1	3.66	4.00	3.79	YES
L0004800	0	0.13570E-06	477440.1	3741796.4	461.2	3.66	4.00	3.79	YES
L0004801	0	0.13570E-06	477439.9	3741787.8	461.1	3.66	4.00	3.79	YES
L0004858	0	0.70000E-07	477334.2	3741778.7	463.6	3.66	4.00	1.62	YES
L0004859	0	0.70000E-07	477342.8	3741778.7	463.4	3.66	4.00	1.62	YES
L0004860	0	0.70000E-07	477351.4	3741778.6	463.1	3.66	4.00	1.62	YES
L0004861	0	0.70000E-07	477360.0	3741778.6	462.9	3.66	4.00	1.62	YES
L0004862	0	0.70000E-07	477368.6	3741778.6	462.7	3.66	4.00	1.62	YES
L0004863	0	0.70000E-07	477377.2	3741778.6	462.6	3.66	4.00	1.62	YES
L0004864	0	0.70000E-07	477385.8	3741778.5	462.4	3.66	4.00	1.62	YES
L0004865	0	0.70000E-07	477394.3	3741778.5	462.2	3.66	4.00	1.62	YES
L0004866	0	0.70000E-07	477402.9	3741778.5	462.0	3.66	4.00	1.62	YES
L0004867	0	0.70000E-07	477411.5	3741778.4	461.8	3.66	4.00	1.62	YES
L0004868	0	0.70000E-07	477420.1	3741778.4	461.6	3.66	4.00	1.62	YES
L0004869	0	0.70000E-07	477428.7	3741778.4	461.4	3.66	4.00	1.62	YES
L0004870	0	0.70000E-07	477437.3	3741778.3	461.2	3.66	4.00	1.62	YES
L0004871	0	0.70000E-07	477445.9	3741778.3	461.0	3.66	4.00	1.62	YES
L0004872	0	0.70000E-07	477454.5	3741778.3	460.8	3.66	4.00	1.62	YES
L0004873	0	0.70000E-07	477463.1	3741778.3	460.6	3.66	4.00	1.62	YES
L0004874	0	0.70000E-07	477471.7	3741778.2	460.4	3.66	4.00	1.62	YES
L0004875	0	0.70000E-07	477480.2	3741778.2	460.3	3.66	4.00	1.62	YES
L0004876	0	0.70000E-07	477488.8	3741778.2	460.2	3.66	4.00	1.62	YES
L0004877	0	0.70000E-07	477497.4	3741778.1	460.0	3.66	4.00	1.62	YES
L0004878	0	0.70000E-07	477506.0	3741778.1	459.8	3.66	4.00	1.62	YES
L0004879	0	0.70000E-07	477514.6	3741778.1	459.6	3.66	4.00	1.62	YES
L0004902	0	0.14270E-08	477517.4	3741766.8	459.6	3.66	4.00	1.62	YES
L0004903	0	0.14270E-08	477518.6	3741758.3	459.6	3.66	4.00	1.62	YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 ***

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*** MODELOPTS: RegDEFAULT 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
L0004904	0	0.14270E-08	477519.7	3741749.8	459.6	3.66	4.00	1.62	YES	
L0004905	0	0.14270E-08	477519.6	3741741.2	459.7	3.66	4.00	1.62	YES	
L0004906	0	0.14270E-08	477519.5	3741732.6	459.7	3.66	4.00	1.62	YES	
L0004907	0	0.14270E-08	477519.4	3741724.1	459.8	3.66	4.00	1.62	YES	
L0004908	0	0.14270E-08	477519.3	3741715.5	459.8	3.66	4.00	1.62	YES	
L0004909	0	0.14270E-08	477519.3	3741706.9	459.9	3.66	4.00	1.62	YES	
L0004910	0	0.14270E-08	477519.4	3741698.3	460.0	3.66	4.00	1.62	YES	
L0004911	0	0.14270E-08	477519.5	3741689.7	460.1	3.66	4.00	1.62	YES	
L0004912	0	0.14270E-08	477519.6	3741681.1	460.1	3.66	4.00	1.62	YES	
L0004913	0	0.14270E-08	477519.7	3741672.5	460.2	3.66	4.00	1.62	YES	
L0004914	0	0.14270E-08	477519.8	3741663.9	460.3	3.66	4.00	1.62	YES	
L0004915	0	0.14270E-08	477519.9	3741655.3	460.4	3.66	4.00	1.62	YES	
L0004916	0	0.14270E-08	477520.0	3741646.8	460.5	3.66	4.00	1.62	YES	
L0004917	0	0.14270E-08	477520.1	3741638.2	460.6	3.66	4.00	1.62	YES	
L0004918	0	0.14270E-08	477520.2	3741629.6	460.7	3.66	4.00	1.62	YES	
L0004919	0	0.14270E-08	477520.3	3741621.0	460.8	3.66	4.00	1.62	YES	
L0004920	0	0.14270E-08	477520.4	3741612.4	460.9	3.66	4.00	1.62	YES	
L0004921	0	0.14270E-08	477520.4	3741603.8	461.0	3.66	4.00	1.62	YES	
L0004922	0	0.14270E-08	477520.5	3741595.2	461.1	3.66	4.00	1.62	YES	
L0004923	0	0.14270E-08	477520.6	3741586.6	461.1	3.66	4.00	1.62	YES	
L0004924	0	0.14270E-08	477520.5	3741578.0	461.2	3.66	4.00	1.62	YES	
L0004925	0	0.14270E-08	477520.5	3741569.4	461.3	3.66	4.00	1.62	YES	
L0004926	0	0.14270E-08	477520.5	3741560.9	461.4	3.66	4.00	1.62	YES	
L0004927	0	0.14270E-08	477520.4	3741552.3	461.4	3.66	4.00	1.62	YES	
L0004928	0	0.14270E-08	477520.4	3741543.7	461.5	3.66	4.00	1.62	YES	
L0004929	0	0.14270E-08	477520.3	3741535.1	461.6	3.66	4.00	1.62	YES	
L0004930	0	0.14270E-08	477520.3	3741526.5	461.7	3.66	4.00	1.62	YES	
L0004931	0	0.14270E-08	477520.2	3741517.9	461.8	3.66	4.00	1.62	YES	
L0004932	0	0.14270E-08	477520.2	3741509.3	461.8	3.66	4.00	1.62	YES	
L0004933	0	0.14270E-08	477520.2	3741500.7	461.9	3.66	4.00	1.62	YES	
L0004934	0	0.14270E-08	477520.1	3741492.1	462.0	3.66	4.00	1.62	YES	
L0004935	0	0.14270E-08	477520.1	3741483.5	462.1	3.66	4.00	1.62	YES	
L0004936	0	0.14270E-08	477520.0	3741475.0	462.1	3.66	4.00	1.62	YES	
L0004937	0	0.14270E-08	477520.0	3741466.4	462.2	3.66	4.00	1.62	YES	
L0004938	0	0.14270E-08	477520.0	3741457.8	462.3	3.66	4.00	1.62	YES	
L0004939	0	0.14270E-08	477519.9	3741449.2	462.3	3.66	4.00	1.62	YES	
L0004940	0	0.14270E-08	477519.9	3741440.6	462.4	3.66	4.00	1.62	YES	
L0004941	0	0.14270E-08	477519.8	3741432.0	462.5	3.66	4.00	1.62	YES	
L0004942	0	0.14270E-08	477519.8	3741423.4	462.6	3.66	4.00	1.62	YES	
L0004943	0	0.14270E-08	477519.8	3741414.8	462.7	3.66	4.00	1.62	YES	

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* PAGE 6

*** 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
L0004944	0	0.14270E-08	477519.7	3741406.2	462.8	3.66	4.00	1.62	YES	
L0004945	0	0.14270E-08	477519.7	3741397.6	462.9	3.66	4.00	1.62	YES	
L0004946	0	0.14270E-08	477519.6	3741389.1	463.0	3.66	4.00	1.62	YES	
L0004947	0	0.14270E-08	477519.6	3741380.5	463.1	3.66	4.00	1.62	YES	
L0004948	0	0.14270E-08	477519.6	3741371.9	463.2	3.66	4.00	1.62	YES	
L0004949	0	0.14270E-08	477519.5	3741363.3	463.2	3.66	4.00	1.62	YES	
L0004950	0	0.14270E-08	477519.5	3741354.7	463.3	3.66	4.00	1.62	YES	
L0004951	0	0.14270E-08	477519.4	3741346.1	463.3	3.66	4.00	1.62	YES	
L0004952	0	0.14270E-08	477519.4	3741337.5	463.4	3.66	4.00	1.62	YES	
L0004953	0	0.14270E-08	477519.4	3741328.9	463.5	3.66	4.00	1.62	YES	
L0004954	0	0.14270E-08	477519.3	3741320.3	463.6	3.66	4.00	1.62	YES	
L0004955	0	0.14270E-08	477519.3	3741311.8	463.7	3.66	4.00	1.62	YES	
L0004956	0	0.14270E-08	477519.2	3741303.2	463.8	3.66	4.00	1.62	YES	
L0004957	0	0.14270E-08	477519.2	3741294.6	463.9	3.66	4.00	1.62	YES	
L0004958	0	0.14270E-08	477519.2	3741286.0	463.9	3.66	4.00	1.62	YES	
L0004959	0	0.14270E-08	477519.1	3741277.4	463.9	3.66	4.00	1.62	YES	
L0004960	0	0.14270E-08	477519.1	3741268.8	463.9	3.66	4.00	1.62	YES	
L0004961	0	0.14270E-08	477519.0	3741260.2	463.9	3.66	4.00	1.62	YES	
L0004962	0	0.14270E-08	477519.0	3741251.6	463.9	3.66	4.00	1.62	YES	
L0004963	0	0.14270E-08	477519.0	3741243.0	463.8	3.66	4.00	1.62	YES	
L0004964	0	0.14270E-08	477518.9	3741234.4	463.7	3.66	4.00	1.62	YES	
L0004965	0	0.14270E-08	477518.9	3741225.9	463.6	3.66	4.00	1.62	YES	
L0004966	0	0.14270E-08	477518.8	3741217.3	463.6	3.66	4.00	1.62	YES	
L0004967	0	0.14270E-08	477519.5	3741208.7	463.6	3.66	4.00	1.62	YES	
L0004968	0	0.14270E-08	477520.2	3741200.1	463.5	3.66	4.00	1.62	YES	
L0005036	0	0.35700E-07	477255.0	3742544.0	459.2	3.66	4.00	1.62	YES	
L0005037	0	0.35700E-07	477255.0	3742535.4	459.3	3.66	4.00	1.62	YES	
L0005038	0	0.35700E-07	477255.0	3742526.8	459.4	3.66	4.00	1.62	YES	
L0005039	0	0.35700E-07	477255.0	3742518.2	459.4	3.66	4.00	1.62	YES	
L0005040	0	0.35700E-07	477255.1	3742509.6	459.5	3.66	4.00	1.62	YES	
L0005041	0	0.35700E-07	477255.1	3742501.0	459.6	3.66	4.00	1.62	YES	
L0005042	0	0.35700E-07	477255.1	3742492.4	459.7	3.66	4.00	1.62	YES	
L0005043	0	0.35700E-07	477255.2	3742483.8	459.8	3.66	4.00	1.62	YES	
L0005044	0	0.35700E-07	477255.2	3742475.2	459.9	3.66	4.00	1.62	YES	
L0005045	0	0.35700E-07	477255.2	3742466.7	460.0	3.66	4.00	1.62	YES	
L0005046	0	0.35700E-07	477255.2	3742458.1	460.1	3.66	4.00	1.62	YES	
L0005047	0	0.35700E-07	477255.3	3742449.5	460.2	3.66	4.00	1.62	YES	
L0005048	0	0.35700E-07	477255.3	3742440.9	460.3	3.66	4.00	1.62	YES	
L0005049	0	0.35700E-07	477255.3	3742432.3	460.3	3.66	4.00	1.62	YES	
L0005050	0	0.35700E-07	477255.4	3742423.7	460.4	3.66	4.00	1.62	YES	

*** AERMOD - VERSION 21112 ***

*** Harvill revised with new site plan

01/19/22

*** 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
L0005051	0	0.35700E-07	477255.4	3742415.1	460.5	3.66	4.00	1.62	YES	
L0005052	0	0.35700E-07	477255.4	3742406.5	460.6	3.66	4.00	1.62	YES	
L0005053	0	0.35700E-07	477255.4	3742397.9	460.6	3.66	4.00	1.62	YES	
L0005054	0	0.35700E-07	477255.5	3742389.3	460.7	3.66	4.00	1.62	YES	
L0005055	0	0.35700E-07	477255.5	3742380.8	460.8	3.66	4.00	1.62	YES	
L0005056	0	0.35700E-07	477255.5	3742372.2	460.9	3.66	4.00	1.62	YES	
L0005057	0	0.35700E-07	477255.6	3742363.6	461.0	3.66	4.00	1.62	YES	
L0005058	0	0.35700E-07	477255.6	3742355.0	461.1	3.66	4.00	1.62	YES	
L0005059	0	0.35700E-07	477255.6	3742346.4	461.2	3.66	4.00	1.62	YES	
L0005060	0	0.35700E-07	477255.6	3742337.8	461.3	3.66	4.00	1.62	YES	
L0005061	0	0.35700E-07	477255.7	3742329.2	461.4	3.66	4.00	1.62	YES	
L0005062	0	0.35700E-07	477255.7	3742320.6	461.4	3.66	4.00	1.62	YES	
L0005063	0	0.35700E-07	477255.7	3742312.0	461.5	3.66	4.00	1.62	YES	
L0005064	0	0.35700E-07	477255.8	3742303.4	461.6	3.66	4.00	1.62	YES	
L0005065	0	0.35700E-07	477255.8	3742294.9	461.7	3.66	4.00	1.62	YES	
L0005066	0	0.35700E-07	477255.8	3742286.3	461.8	3.66	4.00	1.62	YES	
L0005067	0	0.35700E-07	477255.8	3742277.7	461.9	3.66	4.00	1.62	YES	
L0005068	0	0.35700E-07	477255.9	3742269.1	461.9	3.66	4.00	1.62	YES	
L0005069	0	0.35700E-07	477255.9	3742260.5	462.0	3.66	4.00	1.62	YES	
L0005070	0	0.35700E-07	477255.9	3742251.9	462.2	3.66	4.00	1.62	YES	
L0005071	0	0.35700E-07	477256.0	3742243.3	462.3	3.66	4.00	1.62	YES	
L0005072	0	0.35700E-07	477256.0	3742234.7	462.4	3.66	4.00	1.62	YES	
L0005073	0	0.35700E-07	477256.0	3742226.1	462.5	3.66	4.00	1.62	YES	
L0005074	0	0.35700E-07	477256.0	3742217.6	462.7	3.66	4.00	1.62	YES	
L0005075	0	0.35700E-07	477256.1	3742209.0	462.8	3.66	4.00	1.62	YES	
L0005076	0	0.35700E-07	477256.1	3742200.4	463.0	3.66	4.00	1.62	YES	
L0005077	0	0.35700E-07	477256.1	3742191.8	463.2	3.66	4.00	1.62	YES	
L0005078	0	0.35700E-07	477256.2	3742183.2	463.4	3.66	4.00	1.62	YES	
L0005079	0	0.35700E-07	477256.4	3742174.6	463.6	3.66	4.00	1.62	YES	
L0005080	0	0.35700E-07	477256.9	3742166.0	463.8	3.66	4.00	1.62	YES	
L0005081	0	0.35700E-07	477257.3	3742157.5	463.9	3.66	4.00	1.62	YES	
L0005082	0	0.35700E-07	477257.8	3742148.9	464.1	3.66	4.00	1.62	YES	
L0005083	0	0.35700E-07	477258.5	3742140.3	464.1	3.66	4.00	1.62	YES	
L0005084	0	0.35700E-07	477259.7	3742131.8	464.2	3.66	4.00	1.62	YES	
L0005085	0	0.35700E-07	477261.2	3742123.4	464.2	3.66	4.00	1.62	YES	
L0005086	0	0.35700E-07	477263.4	3742115.1	464.2	3.66	4.00	1.62	YES	
L0005087	0	0.35700E-07	477265.7	3742106.8	464.4	3.66	4.00	1.62	YES	
L0005088	0	0.35700E-07	477268.2	3742098.6	464.4	3.66	4.00	1.62	YES	
L0005089	0	0.35700E-07	477270.6	3742090.3	464.5	3.66	4.00	1.62	YES	

L0005090 0 0.35700E-07 477273.1 3742082.1 464.6 3.66 4.00 1.62 YES

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan ***
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 ***

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 18:43:50
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*** MODELOPTs: RegDEFAULT 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
L0005091	0	0.35700E-07	477275.6	3742073.9	464.6	3.66	4.00	1.62	YES	
L0005092	0	0.35700E-07	477279.5	3742066.2	464.6	3.66	4.00	1.62	YES	
L0005093	0	0.35700E-07	477283.4	3742058.6	464.6	3.66	4.00	1.62	YES	
L0005094	0	0.35700E-07	477287.4	3742051.0	464.6	3.66	4.00	1.62	YES	
L0005095	0	0.35700E-07	477291.4	3742043.4	464.6	3.66	4.00	1.62	YES	
L0005096	0	0.35700E-07	477295.9	3742036.1	464.5	3.66	4.00	1.62	YES	
L0005097	0	0.35700E-07	477300.4	3742028.8	464.5	3.66	4.00	1.62	YES	
L0005098	0	0.35700E-07	477304.9	3742021.4	464.4	3.66	4.00	1.62	YES	
L0005099	0	0.35700E-07	477309.5	3742014.2	464.3	3.66	4.00	1.62	YES	
L0005100	0	0.35700E-07	477315.1	3742007.7	464.2	3.66	4.00	1.62	YES	
L0005101	0	0.35700E-07	477320.8	3742001.3	464.1	3.66	4.00	1.62	YES	
L0005102	0	0.35700E-07	477326.5	3741994.8	463.9	3.66	4.00	1.62	YES	
L0005103	0	0.35700E-07	477332.1	3741988.3	463.8	3.66	4.00	1.62	YES	
L0005104	0	0.35700E-07	477338.4	3741982.4	463.6	3.66	4.00	1.62	YES	
L0005105	0	0.35700E-07	477344.7	3741976.7	463.4	3.66	4.00	1.62	YES	
L0005106	0	0.35700E-07	477351.2	3741971.0	463.3	3.66	4.00	1.62	YES	
L0005107	0	0.35700E-07	477358.0	3741965.8	463.1	3.66	4.00	1.62	YES	
L0005108	0	0.35700E-07	477364.8	3741960.5	462.9	3.66	4.00	1.62	YES	
L0005109	0	0.35700E-07	477371.7	3741955.4	462.7	3.66	4.00	1.62	YES	
L0005110	0	0.35700E-07	477378.8	3741950.5	462.6	3.66	4.00	1.62	YES	
L0005111	0	0.35700E-07	477385.9	3741945.7	462.4	3.66	4.00	1.62	YES	
L0005112	0	0.35700E-07	477393.0	3741940.9	462.2	3.66	4.00	1.62	YES	
L0005113	0	0.35700E-07	477400.1	3741936.0	462.0	3.66	4.00	1.62	YES	
L0005114	0	0.35700E-07	477407.2	3741931.2	461.8	3.66	4.00	1.62	YES	
L0005115	0	0.35700E-07	477414.3	3741926.4	461.6	3.66	4.00	1.62	YES	
L0005116	0	0.35700E-07	477421.1	3741921.1	461.4	3.66	4.00	1.62	YES	
L0005117	0	0.35700E-07	477427.9	3741915.9	461.2	3.66	4.00	1.62	YES	
L0005118	0	0.35700E-07	477434.6	3741910.6	461.0	3.66	4.00	1.62	YES	
L0005119	0	0.35700E-07	477441.2	3741905.1	460.8	3.66	4.00	1.62	YES	
L0005120	0	0.35700E-07	477447.8	3741899.5	460.7	3.66	4.00	1.62	YES	
L0005121	0	0.35700E-07	477453.6	3741893.2	460.5	3.66	4.00	1.62	YES	
L0005122	0	0.35700E-07	477459.3	3741886.8	460.4	3.66	4.00	1.62	YES	
L0005123	0	0.35700E-07	477465.0	3741880.4	460.3	3.66	4.00	1.62	YES	
L0005124	0	0.35700E-07	477470.6	3741873.9	460.1	3.66	4.00	1.62	YES	
L0005125	0	0.35700E-07	477475.7	3741867.0	460.0	3.66	4.00	1.62	YES	
L0005126	0	0.35700E-07	477480.6	3741859.9	459.9	3.66	4.00	1.62	YES	

L0005127	0	0.35700E-07	477484.8	3741852.4	459.8	3.66	4.00	1.62	YES
L0005128	0	0.35700E-07	477489.0	3741844.9	459.7	3.66	4.00	1.62	YES
L0005129	0	0.35700E-07	477493.0	3741837.3	459.6	3.66	4.00	1.62	YES
L0005130	0	0.35700E-07	477497.0	3741829.7	459.5	3.66	4.00	1.62	YES

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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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
L0005131	0	0.35700E-07	477501.1	3741822.1	459.5	3.66	4.00	1.62	YES	
L0005132	0	0.35700E-07	477504.2	3741814.2	459.4	3.66	4.00	1.62	YES	
L0005133	0	0.35700E-07	477507.3	3741806.1	459.3	3.66	4.00	1.62	YES	
L0005134	0	0.35700E-07	477510.3	3741798.1	459.3	3.66	4.00	1.62	YES	
L0005135	0	0.35700E-07	477513.4	3741790.1	459.4	3.66	4.00	1.62	YES	

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0004746 , L0004747 , L0004748 , L0004749 , L0004750 , L0004751 , L0004752 , L0004753 , L0004754 , L0004755 , L0004756 , L0004757 , L0004758 , L0004759 , L0004760 , L0004761 , L0004762 , L0004763 , L0004764 , L0004765 , L0004766 , L0004767 , L0004768 , L0004769 , L0004770 , L0004771 , L0004772 , L0004773 , L0004774 , L0004775 , L0004776 , L0004777 , L0004778 , L0004779 , L0004780 , L0004781 , L0004782 , L0004783 , L0004784 , L0004785 , L0004786 , L0004787 , L0004788 , L0004789 , L0004790 , L0004791 , L0004792 , L0004793 , L0004794 , L0004795 , L0004796 , L0004797 , L0004798 , L0004799 , L0004800 , L0004801 , L0004858 , L0004859 , L0004860 , L0004861 , L0004862 , L0004863 , L0004864 , L0004865

L0004866 , L0004867 , L0004868 , L0004869 , L0004870 , L0004871 , L0004872 , L0004873 ,
 L0004874 , L0004875 , L0004876 , L0004877 , L0004878 , L0004879 , L0004902 , L0004903 ,
 L0004904 , L0004905 , L0004906 , L0004907 , L0004908 , L0004909 , L0004910 , L0004911 ,
 L0004912 , L0004913 , L0004914 , L0004915 , L0004916 , L0004917 , L0004918 , L0004919 ,
 L0004920 , L0004921 , L0004922 , L0004923 , L0004924 , L0004925 , L0004926 , L0004927 ,
 L0004928 , L0004929 , L0004930 , L0004931 , L0004932 , L0004933 , L0004934 , L0004935 ,
 L0004936 , L0004937 , L0004938 , L0004939 , L0004940 , L0004941 , L0004942 , L0004943 ,
 L0004944 , L0004945 , L0004946 , L0004947 , L0004948 , L0004949 , L0004950 , L0004951 ,
 L0004952 , L0004953 , L0004954 , L0004955 , L0004956 , L0004957 , L0004958 , L0004959 ,
 L0004960 , L0004961 , L0004962 , L0004963 , L0004964 , L0004965 , L0004966 , L0004967 ,
 L0004968 , L0005036 , L0005037 , L0005038 , L0005039 , L0005040 , L0005041 , L0005042 ,
 L0005043 , L0005044 , L0005045 , L0005046 , L0005047 , L0005048 , L0005049 , L0005050 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* *** PAGE 11

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs														
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L0005051	,	L0005052	,	L0005053	,	L0005054	,	L0005055	,	L0005056	,	L0005057	,	L0005058	,
L0005059	,	L0005060	,	L0005061	,	L0005062	,	L0005063	,	L0005064	,	L0005065	,	L0005066	,
L0005067	,	L0005068	,	L0005069	,	L0005070	,	L0005071	,	L0005072	,	L0005073	,	L0005074	,
L0005075	,	L0005076	,	L0005077	,	L0005078	,	L0005079	,	L0005080	,	L0005081	,	L0005082	,
L0005083	,	L0005084	,	L0005085	,	L0005086	,	L0005087	,	L0005088	,	L0005089	,	L0005090	,
L0005091	,	L0005092	,	L0005093	,	L0005094	,	L0005095	,	L0005096	,	L0005097	,	L0005098	,
L0005099	,	L0005100	,	L0005101	,	L0005102	,	L0005103	,	L0005104	,	L0005105	,	L0005106	,

L0005107 , L0005108 , L0005109 , L0005110 , L0005111 , L0005112 , L0005113 , L0005114 ,
 L0005115 , L0005116 , L0005117 , L0005118 , L0005119 , L0005120 , L0005121 , L0005122 ,
 L0005123 , L0005124 , L0005125 , L0005126 , L0005127 , L0005128 , L0005129 , L0005130 ,
 L0005131 , L0005132 , L0005133 , L0005134 , L0005135 , STCK1 , STCK2 , STCK3 ,
 STCK4 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
 *** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U* PAGE 12

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

URBAN ID	URBAN POP	SOURCE IDs								
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L0004753	2189641.	L0004746	, L0004747	, L0004748	, L0004749	, L0004750	, L0004751	, L0004752	,	
	,	L0004754	, L0004755	, L0004756	, L0004757	, L0004758	, L0004759	, L0004760	, L0004761	,
		L0004762	, L0004763	, L0004764	, L0004765	, L0004766	, L0004767	, L0004768	, L0004769	,
		L0004770	, L0004771	, L0004772	, L0004773	, L0004774	, L0004775	, L0004776	, L0004777	,
		L0004778	, L0004779	, L0004780	, L0004781	, L0004782	, L0004783	, L0004784	, L0004785	,
		L0004786	, L0004787	, L0004788	, L0004789	, L0004790	, L0004791	, L0004792	, L0004793	,
		L0004794	, L0004795	, L0004796	, L0004797	, L0004798	, L0004799	, L0004800	, L0004801	,
		L0004858	, L0004859	, L0004860	, L0004861	, L0004862	, L0004863	, L0004864	, L0004865	,
		L0004866	, L0004867	, L0004868	, L0004869	, L0004870	, L0004871	, L0004872	, L0004873	,
		L0004874	, L0004875	, L0004876	, L0004877	, L0004878	, L0004879	, L0004902	, L0004903	,
		L0004904	, L0004905	, L0004906	, L0004907	, L0004908	, L0004909	, L0004910	, L0004911	,
		L0004912	, L0004913	, L0004914	, L0004915	, L0004916	, L0004917	, L0004918	, L0004919	,
		L0004920	, L0004921	, L0004922	, L0004923	, L0004924	, L0004925	, L0004926	, L0004927	,
		L0004928	, L0004929	, L0004930	, L0004931	, L0004932	, L0004933	, L0004934	, L0004935	,

L0004936 , L0004937 , L0004938 , L0004939 , L0004940 , L0004941 , L0004942 , L0004943 ,
L0004944 , L0004945 , L0004946 , L0004947 , L0004948 , L0004949 , L0004950 , L0004951 ,
L0004952 , L0004953 , L0004954 , L0004955 , L0004956 , L0004957 , L0004958 , L0004959 ,
L0004960 , L0004961 , L0004962 , L0004963 , L0004964 , L0004965 , L0004966 , L0004967 ,
L0004968 , L0005036 , L0005037 , L0005038 , L0005039 , L0005040 , L0005041 , L0005042 ,
L0005043 , L0005044 , L0005045 , L0005046 , L0005047 , L0005048 , L0005049 , L0005050 ,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

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

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0005051	, L0005052	, L0005053 , L0005054 , L0005055 , L0005056 , L0005057 , L0005058 ,
L0005059	, L0005060	, L0005061 , L0005062 , L0005063 , L0005064 , L0005065 , L0005066 ,
L0005067	, L0005068	, L0005069 , L0005070 , L0005071 , L0005072 , L0005073 , L0005074 ,
L0005075	, L0005076	, L0005077 , L0005078 , L0005079 , L0005080 , L0005081 , L0005082 ,
L0005083	, L0005084	, L0005085 , L0005086 , L0005087 , L0005088 , L0005089 , L0005090 ,
L0005091	, L0005092	, L0005093 , L0005094 , L0005095 , L0005096 , L0005097 , L0005098 ,
L0005099	, L0005100	, L0005101 , L0005102 , L0005103 , L0005104 , L0005105 , L0005106 ,
L0005107	, L0005108	, L0005109 , L0005110 , L0005111 , L0005112 , L0005113 , L0005114 ,
L0005115	, L0005116	, L0005117 , L0005118 , L0005119 , L0005120 , L0005121 , L0005122 ,
L0005123	, L0005124	, L0005125 , L0005126 , L0005127 , L0005128 , L0005129 , L0005130 ,
L0005131	, L0005132	, L0005133 , L0005134 , L0005135 , STCK1 , STCK2 , STCK3 ,
STCK4	,	

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK3

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	8.2,	51.4,	32.4,	-46.1,	25.0,	12	8.2,	53.0,	35.1,	-51.4,	19.4,
13	8.2,	53.0,	39.7,	-56.5,	13.3,	14	8.2,	51.3,	47.4,	-62.1,	6.7,
15	8.2,	48.2,	50.4,	-64.2,	-0.1,	16	8.2,	43.5,	46.4,	-61.6,	-6.8,
17	8.2,	37.5,	44.3,	-58.8,	-13.4,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	8.2,	51.4,	32.4,	13.7,	-25.0,	30	8.2,	53.0,	35.1,	16.2,	-19.4,
31	8.2,	53.0,	39.7,	16.8,	-13.3,	32	8.2,	51.3,	47.4,	14.7,	-6.7,
33	8.2,	48.2,	50.4,	13.8,	0.1,	34	8.2,	43.5,	46.4,	15.2,	6.8,
35	8.2,	37.5,	44.3,	14.5,	13.4,	36	0.0,	0.0,	0.0,	0.0,	0.0,

SOURCE ID: STCK4

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	0.0,	0.0,	0.0,	0.0,	0.0,	2	0.0,	0.0,	0.0,	0.0,	0.0,
3	0.0,	0.0,	0.0,	0.0,	0.0,	4	0.0,	0.0,	0.0,	0.0,	0.0,
5	0.0,	0.0,	0.0,	0.0,	0.0,	6	0.0,	0.0,	0.0,	0.0,	0.0,
7	0.0,	0.0,	0.0,	0.0,	0.0,	8	0.0,	0.0,	0.0,	0.0,	0.0,
9	0.0,	0.0,	0.0,	0.0,	0.0,	10	0.0,	0.0,	0.0,	0.0,	0.0,
11	8.2,	51.4,	32.4,	-53.2,	22.6,	12	8.2,	53.0,	35.1,	-57.9,	15.9,
13	8.2,	53.0,	39.7,	-62.4,	8.6,	14	8.2,	51.3,	47.4,	-67.0,	1.1,
15	8.2,	48.2,	50.4,	-68.1,	-6.5,	16	8.2,	43.5,	46.4,	-64.3,	-13.8,
17	8.2,	37.5,	44.3,	-60.2,	-20.7,	18	0.0,	0.0,	0.0,	0.0,	0.0,
19	0.0,	0.0,	0.0,	0.0,	0.0,	20	0.0,	0.0,	0.0,	0.0,	0.0,
21	0.0,	0.0,	0.0,	0.0,	0.0,	22	0.0,	0.0,	0.0,	0.0,	0.0,
23	0.0,	0.0,	0.0,	0.0,	0.0,	24	0.0,	0.0,	0.0,	0.0,	0.0,
25	0.0,	0.0,	0.0,	0.0,	0.0,	26	0.0,	0.0,	0.0,	0.0,	0.0,
27	0.0,	0.0,	0.0,	0.0,	0.0,	28	0.0,	0.0,	0.0,	0.0,	0.0,
29	8.2,	51.4,	32.4,	20.8,	-22.6,	30	8.2,	53.0,	35.1,	22.8,	-15.9,
31	0.0,	0.0,	0.0,	0.0,	0.0,	32	0.0,	0.0,	0.0,	0.0,	0.0,
33	0.0,	0.0,	0.0,	0.0,	0.0,	34	8.2,	43.5,	46.4,	17.9,	13.8,
35	8.2,	37.5,	44.3,	16.0,	20.7,	36	0.0,	0.0,	0.0,	0.0,	0.0,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

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

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

476642.5, 476723.8, 476805.1, 476886.4, 476967.7, 477049.0, 477130.3, 477211.6, 477292.9, 477374.2,
477455.5, 477536.8, 477618.1, 477699.4, 477780.7, 477862.0, 477943.3, 478024.6, 478105.9, 478187.2,
478268.5,

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

3741193.1, 3741260.9, 3741328.7, 3741396.5, 3741464.3, 3741532.1, 3741599.9, 3741667.7, 3741735.5, 3741803.3,
3741871.1, 3741938.9, 3742006.7, 3742074.5, 3742142.3, 3742210.1, 3742277.9, 3742345.7, 3742413.5, 3742481.3,
3742549.1,

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	480.10	477.10	474.10	471.00	468.20	465.00	462.40	460.00	458.40
3742481.29	482.70	479.30	475.40	471.50	468.30	465.20	462.90	461.00	458.90
3742413.49	485.60	483.60	476.20	471.80	468.20	465.50	463.50	461.90	459.50
3742345.69	491.50	497.50	477.00	472.20	469.10	466.50	464.60	462.60	460.30
3742277.89	499.60	495.40	477.30	472.90	469.90	467.70	465.50	463.30	460.80
3742210.09	494.60	487.30	478.00	474.20	471.10	468.50	466.50	464.20	461.80
3742142.29	490.50	484.70	479.30	475.10	472.40	469.20	467.10	465.20	463.10
3742074.49	492.10	485.50	479.40	476.30	473.50	469.20	467.20	466.00	464.00
3742006.69	491.70	486.20	481.20	476.80	473.50	469.20	467.30	466.00	464.80
3741938.89	491.70	487.20	482.20	477.80	474.70	470.40	468.30	467.00	464.60
3741871.09	492.80	487.90	482.90	479.10	475.80	471.20	468.90	467.30	464.70
3741803.29	493.60	489.20	485.20	481.60	479.00	472.00	469.00	467.10	464.90
3741735.49	495.70	492.30	488.30	484.40	479.30	474.00	469.60	466.70	464.80
3741667.69	499.60	496.50	494.20	493.00	481.50	474.60	470.70	468.00	465.80
3741599.89	503.90	507.20	509.10	507.20	484.90	477.60	472.30	469.70	467.30
3741532.09	510.10	528.40	522.90	507.10	487.60	481.60	475.60	472.50	469.90
3741464.29	523.40	532.00	513.60	499.40	490.60	485.30	478.40	475.70	472.20

3741396.49	528.40	523.20	507.00	500.50	492.10	488.50	481.40	478.30	473.40
3741328.69	526.00	514.10	508.30	502.80	491.20	487.30	483.00	480.50	473.80
3741260.89	521.50	513.10	506.90	500.90	492.60	489.20	484.50	479.00	474.20
3741193.09	522.90	512.80	506.60	501.10	495.20	491.10	484.80	479.50	474.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	458.30	459.60	459.40	459.60	454.20	454.00	450.70	447.70	447.30
3742481.29	457.00	455.50	455.00	453.90	452.70	450.20	449.30	447.90	447.30
3742413.49	457.60	456.50	455.80	454.70	453.00	450.80	449.60	448.40	447.50
3742345.69	458.50	457.40	456.30	454.90	453.20	451.40	450.00	449.00	448.10
3742277.89	459.60	458.30	457.00	455.30	453.50	452.50	450.40	449.60	448.60
3742210.09	460.50	459.00	457.90	456.40	454.20	453.50	451.10	450.00	448.80
3742142.29	461.40	459.90	458.20	456.70	455.00	454.30	451.40	450.00	448.80
3742074.49	462.20	460.30	458.60	457.20	455.10	454.40	451.30	449.70	448.70
3742006.69	462.70	460.60	458.70	457.00	455.40	454.40	451.50	450.00	449.10
3741938.89	462.70	460.60	458.70	457.00	455.60	454.00	451.90	450.40	449.10
3741871.09	462.40	460.50	458.60	457.30	455.70	453.80	452.40	450.70	449.30
3741803.29	462.80	460.80	458.50	456.80	455.10	454.30	452.60	450.90	449.50
3741735.49	463.10	461.00	459.30	457.50	456.20	454.70	452.90	450.60	448.90
3741667.69	464.00	461.50	459.90	458.10	456.60	455.10	452.80	450.70	448.80
3741599.89	465.20	462.70	460.40	458.20	456.20	454.50	452.90	451.20	448.80
3741532.09	467.00	463.20	460.90	458.10	456.50	455.60	452.90	451.60	448.90
3741464.29	468.50	464.20	461.40	459.00	456.40	454.90	452.90	451.40	449.20
3741396.49	468.40	464.60	462.10	459.50	456.90	454.70	453.30	451.40	449.90
3741328.69	469.20	465.40	462.60	460.00	457.40	455.00	453.40	451.70	450.50
3741260.89	470.10	466.10	462.50	459.80	458.00	456.10	453.70	452.30	450.50
3741193.09	471.10	467.00	460.90	459.20	458.70	457.30	455.00	453.60	450.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	478105.94	478187.24	478268.54

3742549.09	446.60	445.80	445.20
3742481.29	446.40	445.70	445.20
3742413.49	446.60	445.70	445.30
3742345.69	447.10	446.30	445.50
3742277.89	447.50	447.00	445.70
3742210.09	447.80	447.00	445.90
3742142.29	447.70	446.80	445.90
3742074.49	447.70	446.70	446.00
3742006.69	447.90	446.80	445.90
3741938.89	447.90	446.90	445.80
3741871.09	447.90	446.70	445.80
3741803.29	447.90	446.70	445.70
3741735.49	447.50	446.50	445.50
3741667.69	447.30	446.00	445.10
3741599.89	447.20	446.00	445.00
3741532.09	447.30	446.10	445.00
3741464.29	447.50	446.30	445.30
3741396.49	447.80	446.60	445.60
3741328.69	448.00	446.80	445.90
3741260.89	448.50	447.10	446.00
3741193.09	449.30	447.40	446.20

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	560.70	558.10	504.00	504.00	468.20	465.00	462.40	460.00	458.40
3742481.29	560.70	560.70	560.70	537.20	504.00	465.20	462.90	461.00	458.90
3742413.49	561.60	560.70	560.70	560.70	558.10	504.00	463.50	461.90	459.50
3742345.69	560.70	504.00	588.60	588.60	587.10	504.00	464.60	462.60	460.30
3742277.89	560.70	558.10	589.20	589.20	588.60	588.60	586.90	463.30	460.80
3742210.09	588.60	589.20	602.50	602.50	600.30	588.60	588.60	586.90	461.80
3742142.29	602.50	602.50	602.50	602.50	602.50	602.50	589.20	588.60	463.10
3742074.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	588.60	588.60
3742006.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	588.60
3741938.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741871.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741803.29	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741735.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741667.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50

3741599.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741532.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741464.29	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741396.49	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741328.69	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741260.89	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50
3741193.09	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50	602.50

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
 PAGE 20

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)								
	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	458.30	459.60	460.90	459.60	454.20	454.00	450.70	447.70	447.30
3742481.29	457.00	455.50	455.00	462.30	452.70	450.20	449.30	447.90	447.30
3742413.49	457.60	456.50	455.80	454.70	453.00	450.80	449.60	448.40	447.50
3742345.69	458.50	457.40	456.30	454.90	453.20	451.40	450.00	449.00	448.10
3742277.89	459.60	458.30	457.00	455.30	453.50	452.50	450.40	449.60	448.60
3742210.09	460.50	459.00	457.90	456.40	454.20	453.50	451.10	450.00	448.80
3742142.29	461.40	459.90	458.20	456.70	455.00	454.30	451.40	450.00	448.80
3742074.49	462.20	460.30	458.60	457.20	455.10	454.40	451.30	449.70	448.70
3742006.69	462.70	460.60	458.70	457.00	455.40	454.40	451.50	450.00	449.10
3741938.89	588.60	460.60	458.70	457.00	455.60	454.00	451.90	450.40	449.10
3741871.09	600.30	586.90	458.60	457.30	455.70	453.80	452.40	450.70	449.30
3741803.29	602.50	588.60	458.50	456.80	455.10	454.30	452.60	450.90	449.50
3741735.49	602.50	601.00	459.30	457.50	456.20	454.70	452.90	450.60	448.90
3741667.69	602.50	602.50	459.90	458.10	456.60	455.10	452.80	450.70	448.80
3741599.89	602.50	602.50	590.30	458.20	456.20	454.50	452.90	451.20	448.80
3741532.09	602.50	602.50	590.60	590.30	456.50	455.60	452.90	451.60	448.90
3741464.29	602.50	602.50	601.00	590.30	568.30	567.60	452.90	451.40	449.20
3741396.49	602.50	602.50	602.50	590.60	590.30	568.30	453.30	451.40	449.90
3741328.69	602.50	602.50	602.50	590.60	590.30	568.30	568.10	451.70	450.50
3741260.89	602.50	602.50	602.50	590.60	590.60	568.30	568.30	567.60	450.50
3741193.09	602.50	602.50	602.50	590.60	590.60	586.40	568.30	568.10	450.60

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
 PAGE 21

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

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

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	478105.94	478187.24	478268.54	X-COORD (METERS)
3742549.09	446.60	445.80	445.20	
3742481.29	446.40	445.70	445.20	
3742413.49	446.60	445.70	445.30	
3742345.69	447.10	446.30	445.50	
3742277.89	447.50	447.00	445.70	
3742210.09	447.80	447.00	445.90	
3742142.29	447.70	446.80	445.90	
3742074.49	447.70	446.70	446.00	
3742006.69	447.90	446.80	445.90	
3741938.89	447.90	446.90	445.80	
3741871.09	447.90	446.70	445.80	
3741803.29	447.90	446.70	445.70	
3741735.49	447.50	446.50	445.50	
3741667.69	447.30	446.00	445.10	
3741599.89	447.20	446.00	445.00	
3741532.09	447.30	446.10	445.00	
3741464.29	447.50	446.30	445.30	
3741396.49	447.80	446.60	445.60	
3741328.69	448.00	446.80	445.90	
3741260.89	448.50	447.10	446.00	
3741193.09	449.30	447.40	446.20	

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***   01/19/22
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 ***   18:43:50
                                                                                                     PAGE 22

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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(476872.2, 3741997.1,	477.6,	602.5,	0.0);	(476865.3, 3741816.7,	482.0,	602.5,	0.0);
(476897.4, 3741739.0,	483.7,	602.5,	0.0);	(477215.8, 3741722.3,	466.9,	602.5,	0.0);
(477402.7, 3741652.7,	463.5,	602.5,	0.0);	(477414.3, 3741347.9,	467.2,	602.5,	0.0);
(478215.2, 3741801.1,	446.3,	446.3,	0.0);	(478097.3, 3742191.0,	448.0,	448.0,	0.0);

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***   01/19/22
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 ***   18:43:50
                                                                                                     PAGE 23

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

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

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SOURCE           - - RECEPTOR LOCATION - -           DISTANCE

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First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5			
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5			
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5			
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5			
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5			
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5			
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5			
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5			
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5			
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5			
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5			
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5			
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5			
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5			
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5			
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5			
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5			
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5			
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5			
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1	0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5			
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3	0.19	0.61	1.00	1.30	318.	9.1	284.9	5.5			
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	196.	9.1	283.1	5.5			
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	330.	9.1	281.4	5.5			
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	332.	9.1	280.9	5.5			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6	99.0	-99.00	-99.00
10	01	01	01	9.1	1	335.	1.30	-999.0	99.0	-99.00	-99.00

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

*** AERMOD - VERSION 21112 *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0004746 , L0004747 , L0004748 , L0004749 , L0004750 ,
 L0004751 , L0004752 , L0004753 , L0004754 , L0004755 , L0004756 , L0004757 , L0004758 ,
 L0004759 , L0004760 , L0004761 , L0004762 , L0004763 , L0004764 , L0004765 , L0004766 ,
 L0004767 , L0004768 , L0004769 , L0004770 , L0004771 , L0004772 , L0004773 , . . .

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	476642.54	476723.84	476805.14	476886.44	476967.74	477049.04	477130.34	477211.64	477292.94
3742549.09	0.00015	0.00017	0.00020	0.00024	0.00027	0.00030	0.00034	0.00042	0.00043
3742481.29	0.00015	0.00018	0.00021	0.00025	0.00030	0.00034	0.00040	0.00054	0.00058
3742413.49	0.00015	0.00018	0.00022	0.00027	0.00033	0.00039	0.00046	0.00063	0.00068
3742345.69	0.00014	0.00015	0.00023	0.00028	0.00036	0.00044	0.00054	0.00074	0.00082
3742277.89	0.00013	0.00016	0.00023	0.00030	0.00038	0.00049	0.00063	0.00088	0.00100
3742210.09	0.00013	0.00018	0.00024	0.00031	0.00041	0.00055	0.00074	0.00105	0.00127
3742142.29	0.00014	0.00018	0.00024	0.00032	0.00043	0.00059	0.00085	0.00125	0.00166
3742074.49	0.00014	0.00018	0.00025	0.00032	0.00044	0.00065	0.00095	0.00146	0.00234
3742006.69	0.00014	0.00018	0.00024	0.00033	0.00046	0.00070	0.00107	0.00173	0.00294
3741938.89	0.00014	0.00018	0.00024	0.00033	0.00046	0.00070	0.00113	0.00209	0.00442
3741871.09	0.00014	0.00018	0.00024	0.00032	0.00044	0.00068	0.00110	0.00211	0.00603
3741803.29	0.00014	0.00017	0.00022	0.00030	0.00041	0.00066	0.00106	0.00189	0.00356
3741735.49	0.00013	0.00016	0.00021	0.00027	0.00039	0.00060	0.00098	0.00173	0.00324
3741667.69	0.00012	0.00014	0.00018	0.00022	0.00035	0.00056	0.00085	0.00135	0.00228
3741599.89	0.00011	0.00012	0.00013	0.00016	0.00031	0.00047	0.00070	0.00102	0.00153
3741532.09	0.00009	0.00009	0.00011	0.00015	0.00027	0.00038	0.00055	0.00076	0.00107
3741464.29	0.00008	0.00008	0.00011	0.00016	0.00023	0.00031	0.00044	0.00058	0.00079
3741396.49	0.00007	0.00009	0.00012	0.00015	0.00020	0.00025	0.00035	0.00046	0.00062
3741328.69	0.00007	0.00009	0.00011	0.00013	0.00019	0.00023	0.00030	0.00037	0.00051
3741260.89	0.00007	0.00009	0.00010	0.00013	0.00017	0.00020	0.00025	0.00033	0.00042
3741193.09	0.00007	0.00008	0.00010	0.00012	0.00014	0.00017	0.00022	0.00029	0.00036

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
 PAGE 27

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0004746 , L0004747 , L0004748 , L0004749 , L0004750 ,
 L0004751 , L0004752 , L0004753 , L0004754 , L0004755 , L0004756 , L0004757 , L0004758 ,
 L0004759 , L0004760 , L0004761 , L0004762 , L0004763 , L0004764 , L0004765 , L0004766 ,
 L0004767 , L0004768 , L0004769 , L0004770 , L0004771 , L0004772 , L0004773 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)								
	477374.24	477455.54	477536.84	477618.14	477699.44	477780.74	477862.04	477943.34	478024.64
3742549.09	0.00035	0.00032	0.00029	0.00027	0.00024	0.00022	0.00019	0.00017	0.00016
3742481.29	0.00041	0.00036	0.00033	0.00030	0.00027	0.00024	0.00021	0.00019	0.00017
3742413.49	0.00049	0.00043	0.00038	0.00034	0.00030	0.00026	0.00023	0.00020	0.00018
3742345.69	0.00060	0.00051	0.00045	0.00039	0.00034	0.00029	0.00025	0.00022	0.00019
3742277.89	0.00076	0.00062	0.00053	0.00045	0.00038	0.00033	0.00028	0.00024	0.00020
3742210.09	0.00101	0.00076	0.00064	0.00054	0.00044	0.00037	0.00030	0.00025	0.00022

3742142.29	0.00142	0.00099	0.00079	0.00064	0.00051	0.00041	0.00033	0.00027	0.00023
3742074.49	0.00212	0.00132	0.00100	0.00076	0.00058	0.00045	0.00036	0.00029	0.00024
3742006.69	0.00328	0.00187	0.00129	0.00091	0.00066	0.00050	0.00038	0.00031	0.00025
3741938.89	0.00540	0.00288	0.00167	0.00107	0.00073	0.00053	0.00040	0.00032	0.00026
3741871.09	0.00744	0.00480	0.00213	0.00122	0.00079	0.00056	0.00042	0.00033	0.00027
3741803.29	0.00492	0.00474	0.00251	0.00130	0.00082	0.00058	0.00043	0.00034	0.00027
3741735.49	0.00540	0.00551	0.00269	0.00135	0.00085	0.00059	0.00044	0.00034	0.00027
3741667.69	0.00345	0.00355	0.00248	0.00136	0.00085	0.00059	0.00043	0.00034	0.00027
3741599.89	0.00215	0.00234	0.00193	0.00127	0.00083	0.00058	0.00043	0.00033	0.00027
3741532.09	0.00145	0.00163	0.00147	0.00110	0.00078	0.00057	0.00042	0.00033	0.00026
3741464.29	0.00104	0.00118	0.00114	0.00093	0.00071	0.00054	0.00041	0.00032	0.00026
3741396.49	0.00080	0.00090	0.00090	0.00078	0.00064	0.00050	0.00039	0.00031	0.00026
3741328.69	0.00064	0.00072	0.00073	0.00065	0.00056	0.00046	0.00037	0.00030	0.00025
3741260.89	0.00052	0.00058	0.00060	0.00055	0.00049	0.00042	0.00035	0.00029	0.00024
3741193.09	0.00043	0.00048	0.00048	0.00046	0.00043	0.00038	0.00033	0.00028	0.00023

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
 *** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
 PAGE 28

*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): L0004746 , L0004747 , L0004748 , L0004749 , L0004750 ,
 L0004751 , L0004752 , L0004753 , L0004754 , L0004755 , L0004756 , L0004757 , L0004758 ,
 L0004759 , L0004760 , L0004761 , L0004762 , L0004763 , L0004764 , L0004765 , L0004766 ,
 L0004767 , L0004768 , L0004769 , L0004770 , L0004771 , L0004772 , L0004773 , . . . ,

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

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

Y-COORD (METERS)	X-COORD (METERS)		
	478105.94	478187.24	478268.54
3742549.09	0.00014	0.00013	0.00011
3742481.29	0.00015	0.00013	0.00012
3742413.49	0.00016	0.00014	0.00013
3742345.69	0.00017	0.00015	0.00013
3742277.89	0.00018	0.00016	0.00014
3742210.09	0.00019	0.00016	0.00014
3742142.29	0.00020	0.00017	0.00015
3742074.49	0.00020	0.00017	0.00015
3742006.69	0.00021	0.00018	0.00016
3741938.89	0.00022	0.00018	0.00016
3741871.09	0.00022	0.00019	0.00016
3741803.29	0.00022	0.00019	0.00016
3741735.49	0.00022	0.00019	0.00016
3741667.69	0.00022	0.00019	0.00016
3741599.89	0.00022	0.00019	0.00016
3741532.09	0.00022	0.00018	0.00016

3741464.29	0.00022	0.00018	0.00016
3741396.49	0.00021	0.00018	0.00016
3741328.69	0.00021	0.00018	0.00015
3741260.89	0.00020	0.00017	0.00015
3741193.09	0.00020	0.00017	0.00015

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***   01/19/22
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 ***   18:43:50
                                                                                                     PAGE 29

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*** MODELOPTs:   RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S):   L0004746 , L0004747 , L0004748 , L0004749 , L0004750 ,
L0004751 , L0004752 , L0004753 , L0004754 , L0004755 , L0004756 , L0004757 , L0004758 ,
L0004759 , L0004760 , L0004761 , L0004762 , L0004763 , L0004764 , L0004765 , L0004766 ,
L0004767 , L0004768 , L0004769 , L0004770 , L0004771 , L0004772 , L0004773 , . . .

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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
476872.25	3741997.10	0.00031	476865.27	3741816.71	0.00028
476897.42	3741739.01	0.00029	477215.84	3741722.29	0.00171
477402.74	3741652.72	0.00319	477414.30	3741347.94	0.00073
478215.16	3741801.12	0.00018	478097.30	3742191.01	0.00019

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*** AERMOD - VERSION 21112 ***   *** Harvill revised with new site plan   ***   01/19/22
*** AERMET - VERSION 16216 ***   *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 ***   18:43:50
                                                                                                     PAGE 30

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*** MODELOPTs:   RegDEFAULT CONC ELEV URBAN ADJ_U*

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*** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***

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

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GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00744 AT (477374.24, 3741871.09, 462.40, 600.30, 0.00)	GC	UCART1
	2ND HIGHEST VALUE IS	0.00603 AT (477292.94, 3741871.09, 464.70, 602.50, 0.00)	GC	UCART1
	3RD HIGHEST VALUE IS	0.00551 AT (477455.54, 3741735.49, 461.00, 601.00, 0.00)	GC	UCART1
	4TH HIGHEST VALUE IS	0.00540 AT (477374.24, 3741938.89, 462.70, 588.60, 0.00)	GC	UCART1
	5TH HIGHEST VALUE IS	0.00540 AT (477374.24, 3741735.49, 463.10, 602.50, 0.00)	GC	UCART1
	6TH HIGHEST VALUE IS	0.00492 AT (477374.24, 3741803.29, 462.80, 602.50, 0.00)	GC	UCART1
	7TH HIGHEST VALUE IS	0.00480 AT (477455.54, 3741871.09, 460.50, 586.90, 0.00)	GC	UCART1
	8TH HIGHEST VALUE IS	0.00474 AT (477455.54, 3741803.29, 460.80, 588.60, 0.00)	GC	UCART1
	9TH HIGHEST VALUE IS	0.00442 AT (477292.94, 3741938.89, 464.60, 602.50, 0.00)	GC	UCART1

10TH HIGHEST VALUE IS 0.00356 AT (477292.94, 3741803.29, 464.90, 602.50, 0.00) GC UCART1

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

*** AERMOD - VERSION 21112 *** *** Harvill revised with new site plan *** 01/19/22
*** AERMET - VERSION 16216 *** *** DPM Concentrations for Harvill Trailer Storage Yard - Years 2039-52 *** 18:43:50
PAGE 31

*** 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 8 Warning Message(s)
A Total of 2028 Informational Message(s)

A Total of 43824 Hours Were Processed

A Total of 978 Calm Hours Identified

A Total of 1050 Missing Hours Identified (2.40 Percent)

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

***** WARNING MESSAGES *****
SO W320 651 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 652 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 653 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
SO W320 654 PPARM: Input Parameter May Be Out-of-Range for Parameter VS
ME W186 822 MEOPEN: THRESH_LMIN 1-min ASOS wind speed threshold used 0.50
ME W187 822 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 14010101
MX W450 17521 CHKDAT: Record Out of Sequence in Meteorological File at: 2 year gap

*** AERMOD Finishes Successfully ***

EMFAC2021 for South Coast AQMD

PM2.5 Running and Idling Exhaust

Area	Season	Veh	Fuel	MdYr	Speed (Miles/hr)	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
						(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
South Coast AQMD	Annual	LHDT2	DSL	Aggregated	0	0.78107432	0.778842	0.777688	0.777509	0.777544	0.777539	0.77765	0.777228	0.776552	0.772631	0.770784	0.768303
South Coast	Annual	LHDT2	DSL	Aggregated	5	0.0814405	0.072381	0.065732	0.060612	0.056486	0.053235	0.050727	0.048784	0.047295	0.046041	0.04507	0.044345
South Coast	Annual	LHDT2	DSL	Aggregated	10	0.06677152	0.059607	0.054347	0.050289	0.04702	0.044449	0.042473	0.040952	0.039803	0.03887	0.03818	0.037707
South Coast	Annual	LHDT2	DSL	Aggregated	35	0.02624199	0.023739	0.02193	0.020552	0.019459	0.018621	0.017998	0.017541	0.017219	0.016983	0.016838	0.016776
South Coast	Annual	MHDT	DSL	Aggregated	0	0.10382856	0.086748	0.07273	0.060303	0.049764	0.041162	0.034359	0.028849	0.024397	0.020752	0.018038	0.015804
South Coast	Annual	MHDT	DSL	Aggregated	5	0.06813635	0.055457	0.047035	0.039388	0.032878	0.027462	0.023065	0.019496	0.016589	0.014187	0.012242	0.010647
South Coast	Annual	MHDT	DSL	Aggregated	10	0.05582793	0.045219	0.038328	0.032074	0.026749	0.022318	0.018721	0.015799	0.013418	0.011449	0.009852	0.008541
South Coast	Annual	MHDT	DSL	Aggregated	35	0.01346459	0.010371	0.008966	0.007687	0.006597	0.005684	0.004945	0.004336	0.003836	0.003412	0.003062	0.002766
South Coast	Annual	HHDT	DSL	Aggregated	0	0.01812906	0.016309	0.015375	0.014634	0.013923	0.013343	0.012838	0.012276	0.011792	0.011375	0.011065	0.010815
South Coast	Annual	HHDT	DSL	Aggregated	5	0.02111367	0.014741	0.014315	0.013927	0.013603	0.013294	0.013002	0.012669	0.012344	0.012015	0.011674	0.011385
South Coast	Annual	HHDT	DSL	Aggregated	10	0.01834807	0.012582	0.012166	0.011786	0.011464	0.011116	0.010875	0.010558	0.01025	0.009941	0.009624	0.009354
South Coast	Annual	HHDT	DSL	Aggregated	35	0.01179447	0.008564	0.008261	0.007966	0.00773	0.007515	0.00732	0.007119	0.006927	0.006736	0.006543	0.006372

	14 yr		14 yr		14 yr		14 yr	
	2025-2038		2025-2038		2025-2038		2025-2038	
	5 mph	10 mph	35 mph	0 mph (idling)				
LHDT2	0.04782	0.04042	0.01760	0.77023				
MHDT	0.01672	0.01351	0.00381	0.02514				
HHDT	0.01202	0.00993	0.00674	0.01168				

	14 yr		14 yr		14 yr		14 yr	
	2039-2052		2039-2052		2039-2052		2039-2052	
	5 mph	10 mph	35 mph	0 mph (idling)				
LHDT2	0.04124	0.03575	0.01666	0.76138				
MHDT	0.00437	0.00339	0.00157	0.00760				
HHDT	0.01016	0.00823	0.00566	0.00978				

	2 yr		2 yr		2 yr		2 yr	
	2023-2024		2021-2023		2023-2024		2023-2024	
	5 mph	10 mph	35 mph	0 mph (idling)				
LHDT2	0.06906	0.05698	0.02283	0.77826				
MHDT	0.05125	0.04177	0.00967	0.07974				
HHDT	0.01453	0.01237	0.00841	0.01584				

	1 yr		1 yr		1 yr		1 yr	
	2022		2022		2022		2022	
	5 mph	10 mph	35 mph	0 mph (idling)				
LHDT2	0.08144	0.06677	0.02624	0.78107				
MHDT	0.06814	0.05583	0.01346	0.10383				
HHDT	0.02111	0.01835	0.01179	0.01813				

2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
0.765381	0.761339	0.76085	0.760267	0.759676	0.760052	0.760312	0.76051	0.760671	0.760734	0.760987	0.761186	0.761437	0.761606	0.761852	0.762113	0.762615	0.762615	0.762615
0.043925	0.043383	0.043392	0.043222	0.042986	0.042652	0.04245	0.042365	0.042288	0.042276	0.042073	0.041864	0.041578	0.041324	0.040992	0.040285	0.039094	0.039094	0.039094
0.037493	0.037198	0.037256	0.037157	0.036992	0.03675	0.03661	0.036571	0.036535	0.036541	0.036416	0.036276	0.036077	0.035892	0.035652	0.035053	0.034045	0.034045	0.034045
0.01681	0.016819	0.016923	0.016956	0.016952	0.016912	0.016899	0.016917	0.016928	0.016946	0.016919	0.01688	0.016818	0.016754	0.016672	0.016443	0.016063	0.016063	0.016063
0.014045	0.012547	0.011458	0.010595	0.009878	0.009315	0.008763	0.008359	0.007956	0.00768	0.007413	0.007299	0.00721	0.00714	0.007086	0.007051	0.00702	0.00702	0.00702
0.009378	0.008311	0.007445	0.006754	0.006178	0.005742	0.00532	0.005004	0.004692	0.004432	0.004179	0.004103	0.004044	0.003994	0.003966	0.003944	0.003924	0.003924	0.003924
0.007498	0.006618	0.005911	0.005347	0.004876	0.004519	0.004174	0.003915	0.003659	0.003445	0.003237	0.003173	0.003122	0.00308	0.003054	0.003034	0.003016	0.003016	0.003016
0.002529	0.002319	0.002176	0.002058	0.001957	0.001876	0.001799	0.001735	0.001671	0.001614	0.001561	0.001533	0.001508	0.001485	0.001465	0.001449	0.001434	0.001434	0.001434
0.010558	0.010383	0.010261	0.010171	0.010094	0.010026	0.009959	0.009899	0.009857	0.009823	0.009786	0.009754	0.009726	0.009704	0.009687	0.009675	0.009662	0.009662	0.009662
0.011096	0.010891	0.010738	0.011114	0.010545	0.010469	0.010394	0.010324	0.010266	0.01021	0.010152	0.010107	0.010069	0.010038	0.010032	0.010032	0.010031	0.010031	0.010031
0.009087	0.008898	0.008758	0.008661	0.008579	0.00851	0.008443	0.008382	0.00833	0.008282	0.008233	0.008194	0.008161	0.008134	0.008126	0.008124	0.008121	0.008121	0.008121
0.006207	0.006082	0.005994	0.005922	0.005861	0.005811	0.005769	0.005734	0.005705	0.005682	0.005662	0.005647	0.005635	0.005625	0.005616	0.00561	0.005603	0.005603	0.005603

APPENDIX D

CALEEMOD MODEL ANNUAL EMISSIONS PRINTOUTS AND EMFAC DATA

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Annual

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

**19365 Harvill Trailer Storage Yard
Riverside-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	16.20	1000sqft	0.34	16,200.00	0
Other Non-Asphalt Surfaces	1.04	Acre	1.04	45,302.40	0
Parking Lot	205.00	Space	5.86	255,056.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 7.24 ac w/ 16.2 TSF (w/ 15 TSF footprint) warehouse/office, 205 parkg spaces (includes 167 trailer stalls & 38 vehicle stalls) with paving covering ~255.056 TSF, & rmndr ~1.04 ac landscaping.

Construction Phase - Construction anticipated to begin June 2022 & be completed by mid-November 2022.

Off-road Equipment - Site prep of ~0.72 ac (~10% of site) to remove existing trees & concrete slabs; therefore, per CalEEMod User's Guide, ~2 pieces of equipment needed for a 1-acre site.

Trips and VMT - ~2 vendor trips added to site prep to account for water truck use.

Grading - Site anticipated to balance. Site prep to remove existing trees & concrete slabs, includes ~40 CY of concrete to be crushed.

Vehicle Trips - Per Trip Gen & VMT Analysis, project to genreate 396 trips. 396 trips/16.2 TSF = 24.44 trips/TSF/day. CalEEMod default distances & percentages utilized as truck trips are anticipated to be local.

Sequestration - 89 new trees to be planted on-site.

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Annual

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

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

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

Waste Mitigation -

Fleet Mix - Revised vehicle fleet mix per Trip Gen & VMT Analysis of 60.86% Autos, 10.61% 2-Axle Trucks, 11.36% 3-Axle Trucks and 17.17% 4+ Axle Trucks.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	85.00
tblConstructionPhase	PhaseEndDate	5/30/2023	11/8/2022
tblConstructionPhase	PhaseEndDate	6/27/2023	10/28/2022
tblConstructionPhase	PhaseEndDate	7/25/2023	11/15/2022
tblConstructionPhase	PhaseStartDate	5/31/2023	10/1/2022
tblConstructionPhase	PhaseStartDate	6/28/2023	10/19/2022
tblFleetMix	HHD	0.02	0.17
tblFleetMix	LDA	0.53	0.35
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.17	0.11
tblFleetMix	LHD1	0.03	0.08
tblFleetMix	LHD2	7.4220e-003	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.09
tblFleetMix	MH	5.7590e-003	0.00
tblFleetMix	MHD	0.01	0.11
tblFleetMix	OBUS	6.3000e-004	0.00
tblFleetMix	SBUS	1.1020e-003	0.00
tblFleetMix	UBUS	3.2100e-004	0.00
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LandUseSquareFeet	82,000.00	255,056.00

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Annual

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

tblLandUse	LotAcreage	0.37	0.34
tblLandUse	LotAcreage	1.84	5.86
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblSequestration	NumberOfNewTrees	0.00	89.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	1.99	24.44
tblVehicleTrips	SU_TR	5.00	24.44
tblVehicleTrips	WD_TR	4.96	24.44

2.0 Emissions Summary

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2600	1.1658	1.2873	2.7500e-003	0.1863	0.0545	0.2409	0.0734	0.0510	0.1244	0.0000	245.5500	245.5500	0.0422	7.2900e-003	248.7780
Maximum	0.2600	1.1658	1.2873	2.7500e-003	0.1863	0.0545	0.2409	0.0734	0.0510	0.1244	0.0000	245.5500	245.5500	0.0422	7.2900e-003	248.7780

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2600	1.1658	1.2873	2.7500e-003	0.1231	0.0545	0.1777	0.0422	0.0510	0.0932	0.0000	245.5498	245.5498	0.0422	7.2900e-003	248.7778
Maximum	0.2600	1.1658	1.2873	2.7500e-003	0.1231	0.0545	0.1777	0.0422	0.0510	0.0932	0.0000	245.5498	245.5498	0.0422	7.2900e-003	248.7778

	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
Percent Reduction	0.00	0.00	0.00	0.00	33.91	0.00	26.24	42.46	0.00	25.05	0.00	0.00	0.00	0.00	0.00	0.00

19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.6528	0.6528
2	9-1-2022	9-30-2022	0.2193	0.2193
		Highest	0.6528	0.6528

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	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Energy	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	72.2808	72.2808	4.2800e-003	9.7000e-004	72.6756
Mobile	0.2115	1.9204	2.2845	0.0113	0.7018	0.0253	0.7270	0.1921	0.0241	0.2162	0.0000	1,065.4043	1,065.4043	0.0256	0.1137	1,099.9117
Waste						0.0000	0.0000		0.0000	0.0000	4.0781	0.0000	4.0781	0.2410	0.0000	10.1033
Water						0.0000	0.0000		0.0000	0.0000	1.1885	8.6509	9.8394	0.1228	2.9700e-003	13.7948
Total	0.3042	1.9461	2.3089	0.0114	0.7018	0.0272	0.7290	0.1921	0.0261	0.2181	5.2666	1,146.3415	1,151.6081	0.3937	0.1176	1,196.4912

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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	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Energy	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	72.2808	72.2808	4.2800e-003	9.7000e-004	72.6756
Mobile	0.2115	1.9204	2.2845	0.0113	0.7018	0.0253	0.7270	0.1921	0.0241	0.2162	0.0000	1,065.404 3	1,065.404 3	0.0256	0.1137	1,099.911 7
Waste						0.0000	0.0000		0.0000	0.0000	4.0781	0.0000	4.0781	0.2410	0.0000	10.1033
Water						0.0000	0.0000		0.0000	0.0000	0.9508	6.9207	7.8715	0.0982	2.3800e-003	11.0358
Total	0.3042	1.9461	2.3089	0.0114	0.7018	0.0272	0.7290	0.1921	0.0261	0.2181	5.0289	1,144.611 4	1,149.640 3	0.3692	0.1170	1,193.732 2

	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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.51	0.15	0.17	6.24	0.50	0.23

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	63.0120
Total	63.0120

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2022	6/14/2022	5	10	
2	Grading	Grading	6/15/2022	7/12/2022	5	20	
3	Building Construction	Building Construction	7/13/2022	11/8/2022	5	85	
4	Paving	Paving	10/1/2022	10/28/2022	5	20	
5	Architectural Coating	Architectural Coating	10/19/2022	11/15/2022	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 20

Acres of Paving: 6.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 24,300; Non-Residential Outdoor: 8,100; Striped Parking Area: 18,022 (Architectural Coating – sqft)

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	2.00	5.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	133.00	52.00	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	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0328	0.0000	0.0328	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0100e-003	0.0524	0.0291	6.0000e-005		2.5400e-003	2.5400e-003		2.3300e-003	2.3300e-003	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1592
Total	5.0100e-003	0.0524	0.0291	6.0000e-005	0.0328	2.5400e-003	0.0353	0.0168	2.3300e-003	0.0192	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1592

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3.2 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.4000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1392	0.1392	0.0000	2.0000e-005	0.1457
Vendor	2.0000e-005	4.4000e-004	1.5000e-004	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1751	0.1751	0.0000	3.0000e-005	0.1829
Worker	9.0000e-005	7.0000e-005	8.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2173	0.2173	1.0000e-005	1.0000e-005	0.2192
Total	1.2000e-004	8.5000e-004	1.0700e-003	0.0000	3.7000e-004	1.0000e-005	4.0000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.5316	0.5316	1.0000e-005	6.0000e-005	0.5479

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					0.0128	0.0000	0.0128	6.5700e-003	0.0000	6.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0100e-003	0.0524	0.0291	6.0000e-005		2.5400e-003	2.5400e-003		2.3300e-003	2.3300e-003	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1591
Total	5.0100e-003	0.0524	0.0291	6.0000e-005	0.0128	2.5400e-003	0.0153	6.5700e-003	2.3300e-003	8.9000e-003	0.0000	5.1178	5.1178	1.6600e-003	0.0000	5.1591

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3.2 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.4000e-004	7.0000e-005	0.0000	4.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1392	0.1392	0.0000	2.0000e-005	0.1457
Vendor	2.0000e-005	4.4000e-004	1.5000e-004	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.1751	0.1751	0.0000	3.0000e-005	0.1829
Worker	9.0000e-005	7.0000e-005	8.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2173	0.2173	1.0000e-005	1.0000e-005	0.2192
Total	1.2000e-004	8.5000e-004	1.0700e-003	0.0000	3.7000e-004	1.0000e-005	4.0000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.5316	0.5316	1.0000e-005	6.0000e-005	0.5479

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0708	9.4100e-003	0.0802	0.0343	8.6600e-003	0.0429	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654

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3.3 Grading - 2022

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	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
Total	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153

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					0.0276	0.0000	0.0276	0.0134	0.0000	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0276	9.4100e-003	0.0370	0.0134	8.6600e-003	0.0220	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654

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3.3 Grading - 2022

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	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
Total	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0725	0.6637	0.6954	1.1400e-003		0.0344	0.0344		0.0324	0.0324	0.0000	98.4832	98.4832	0.0236	0.0000	99.0731
Total	0.0725	0.6637	0.6954	1.1400e-003		0.0344	0.0344		0.0324	0.0324	0.0000	98.4832	98.4832	0.0236	0.0000	99.0731

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3.4 Building Construction - 2022

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	3.5100e-003	0.0981	0.0331	4.0000e-004	0.0140	1.3500e-003	0.0153	4.0300e-003	1.2900e-003	5.3200e-003	0.0000	38.7010	38.7010	4.1000e-004	5.7400e-003	40.4225
Worker	0.0198	0.0154	0.1926	5.3000e-004	0.0621	3.1000e-004	0.0624	0.0165	2.9000e-004	0.0168	0.0000	49.1269	49.1269	1.3100e-003	1.3600e-003	49.5649
Total	0.0233	0.1135	0.2256	9.3000e-004	0.0761	1.6600e-003	0.0778	0.0205	1.5800e-003	0.0221	0.0000	87.8279	87.8279	1.7200e-003	7.1000e-003	89.9874

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	0.0725	0.6637	0.6954	1.1400e-003		0.0344	0.0344		0.0324	0.0324	0.0000	98.4831	98.4831	0.0236	0.0000	99.0730
Total	0.0725	0.6637	0.6954	1.1400e-003		0.0344	0.0344		0.0324	0.0324	0.0000	98.4831	98.4831	0.0236	0.0000	99.0730

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3.4 Building Construction - 2022

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	3.5100e-003	0.0981	0.0331	4.0000e-004	0.0140	1.3500e-003	0.0153	4.0300e-003	1.2900e-003	5.3200e-003	0.0000	38.7010	38.7010	4.1000e-004	5.7400e-003	40.4225
Worker	0.0198	0.0154	0.1926	5.3000e-004	0.0621	3.1000e-004	0.0624	0.0165	2.9000e-004	0.0168	0.0000	49.1269	49.1269	1.3100e-003	1.3600e-003	49.5649
Total	0.0233	0.1135	0.2256	9.3000e-004	0.0761	1.6600e-003	0.0778	0.0205	1.5800e-003	0.0221	0.0000	87.8279	87.8279	1.7200e-003	7.1000e-003	89.9874

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	7.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

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3.5 Paving - 2022

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	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
Total	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153

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	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	7.6800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

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

3.5 Paving - 2022

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	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153
Total	5.2000e-004	4.1000e-004	5.1100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3037	1.3037	3.0000e-005	4.0000e-005	1.3153

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.1189	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.6 Architectural Coating - 2022

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	9.4000e-004	7.3000e-004	9.2000e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.3466	2.3466	6.0000e-005	6.0000e-005	2.3675
Total	9.4000e-004	7.3000e-004	9.2000e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.3466	2.3466	6.0000e-005	6.0000e-005	2.3675

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	0.1169					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.1189	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.6 Architectural Coating - 2022

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	9.4000e-004	7.3000e-004	9.2000e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.3466	2.3466	6.0000e-005	6.0000e-005	2.3675
Total	9.4000e-004	7.3000e-004	9.2000e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.3466	2.3466	6.0000e-005	6.0000e-005	2.3675

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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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	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2115	1.9204	2.2845	0.0113	0.7018	0.0253	0.7270	0.1921	0.0241	0.2162	0.0000	1,065.4043	1,065.4043	0.0256	0.1137	1,099.9117
Unmitigated	0.2115	1.9204	2.2845	0.0113	0.7018	0.0253	0.7270	0.1921	0.0241	0.2162	0.0000	1,065.4043	1,065.4043	0.0256	0.1137	1,099.9117

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	395.93	395.93	395.93	1,753,279	1,753,279
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	395.93	395.93	395.93	1,753,279	1,753,279

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.348710	0.036635	0.112937	0.094378	0.083430	0.022670	0.113600	0.171700	0.000000	0.000000	0.015940	0.000000	0.000000
Other Non-Asphalt Surfaces	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759

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

Parking Lot	0.531022	0.055789	0.171983	0.143721	0.027315	0.007422	0.011813	0.018850	0.000630	0.000321	0.024273	0.001102	0.005759
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	44.3317	44.3317	3.7400e-003	4.5000e-004	44.5604
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	44.3317	44.3317	3.7400e-003	4.5000e-004	44.5604
Natural Gas Mitigated	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152
Natural Gas Unmitigated	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
General Light Industry	523746	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas 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					
General Light Industry	523746	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9491	27.9491	5.4000e-004	5.1000e-004	28.1152

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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

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	160704	28.5001	2.4100e-003	2.9000e-004	28.6472
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89269.6	15.8316	1.3400e-003	1.6000e-004	15.9132
Total		44.3317	3.7500e-003	4.5000e-004	44.5604

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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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	160704	28.5001	2.4100e-003	2.9000e-004	28.6472
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89269.6	15.8316	1.3400e-003	1.6000e-004	15.9132
Total		44.3317	3.7500e-003	4.5000e-004	44.5604

6.0 Area Detail

6.1 Mitigation Measures Area

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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	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Unmitigated	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003

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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0780					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Total	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003

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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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0780					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003
Total	0.0899	3.0000e-005	2.8400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.5200e-003	5.5200e-003	1.0000e-005	0.0000	5.8800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.8715	0.0982	2.3800e-003	11.0358
Unmitigated	9.8394	0.1228	2.9700e-003	13.7948

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	3.74625 / 0	9.8394	0.1228	2.9700e-003	13.7948
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		9.8394	0.1228	2.9700e-003	13.7948

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2.997 / 0	7.8715	0.0982	2.3800e-003	11.0358
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		7.8715	0.0982	2.3800e-003	11.0358

8.0 Waste Detail

8.1 Mitigation Measures Waste

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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	4.0781	0.2410	0.0000	10.1033
Unmitigated	4.0781	0.2410	0.0000	10.1033

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	20.09	4.0781	0.2410	0.0000	10.1033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.0781	0.2410	0.0000	10.1033

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	20.09	4.0781	0.2410	0.0000	10.1033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.0781	0.2410	0.0000	10.1033

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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19365 Harvill Trailer Storage Yard - Riverside-South Coast County, Annual

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	63.0120	0.0000	0.0000	63.0120

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	89	63.0120	0.0000	0.0000	63.0120
Total		63.0120	0.0000	0.0000	63.0120

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	Trips	Energy Consumption	Fuel Consumption	Fuel Consumption	Fuel Consumption	Total Fuel Consumption	Total VMT	Total VMT	Miles Per Gallon	Vehicle Class
South Coast	2022	HHDT	Aggregate	Aggregate	Gasoline	93.77521787	1876.254559	0	1.271766939	1271.766939	1998484.407	4872.85011	11739264.89	5.87	HHDT	
South Coast	2022	HHDT	Aggregate	Aggregate	Diesel	86344.61493	1308488.279	0	1883.165573	1883165.573	11080949.98	653442.0558				
South Coast	2022	HHDT	Aggregate	Aggregate	Natural Gas	9530.013799	64445.55712	0	114.0470669	114047.0669	7863292.337	217937990	233491817.2	29.69	LDA	
South Coast	2022	LDA	Aggregate	Aggregate	Gasoline	5432984.929	25333114.49	0	7742.158581	7742158.581	525055.9524	9151442.882				
South Coast	2022	LDA	Aggregate	Aggregate	Diesel	16596.66266	70061.62945	0	12.98213336	12982.13336	5877328.413	18186231.22	18233327.62	23.58	LDT1	
South Coast	2022	LDA	Aggregate	Aggregate	Electricity	204269.3588	1027049.78	3533212.262	0	0	29089.70421	13789.07098				
South Coast	2022	LDA	Aggregate	Aggregate	Plug-in Hybrid	123066.1719	508878.6208	856005.7326	108.1516236	108151.6236	4217.627426	97358601.17	97676672.01	22.57	LDT2	
South Coast	2022	LDT1	Aggregate	Aggregate	Gasoline	508118.9525	2234897.36	0	772.6742907	772674.2907	318070.8386	246564.7012				
South Coast	2022	LDT1	Aggregate	Aggregate	Diesel	219.3543012	650.4955004	0	0.181276274	181.2762739	651602.4969	11609061.87	14.67	LHDT1		
South Coast	2022	LDT1	Aggregate	Aggregate	Electricity	860.4090968	3929.280026	11231.02673	0	0	7670055.089	2852151.512	14.12	LHDT2		
South Coast	2022	LDT1	Aggregate	Aggregate	Plug-in Hybrid	262.0628223	1083.629777	2172.476691	0.2358249	235.8249004	3939006.782	1148331.498	41.03	MCY		
South Coast	2022	LDT2	Aggregate	Aggregate	Gasoline	2380478.996	11180656.67	0	4304.779926	4304779.926	58964077.19	60366385.9	18.67	MDV		
South Coast	2022	LDT2	Aggregate	Aggregate	Diesel	7265.359325	35160.20236	0	10.4792726	10479.2726	777527.7955	249064.5022				
South Coast	2022	LDT2	Aggregate	Aggregate	Electricity	6619.441536	34120.34272	95194.32476	0	0	375716.4182	295792.8678	5.67	MH		
South Coast	2022	LDT2	Aggregate	Aggregate	Plug-in Hybrid	12770.05734	52804.18709	99473.18925	11.55326881	11553.26881	111949.5066	6218651.542	7.59	MHDT		
South Coast	2022	LHDT1	Aggregate	Aggregate	Gasoline	200207.0512	2982786.755	0	596.2532604	596253.2604	1387695.111	4766318.794				
South Coast	2022	LHDT1	Aggregate	Aggregate	Diesel	95425.65716	1200334.722	0	195.2415597	195241.5597	1387695.111	4766318.794				
South Coast	2022	LHDT1	Aggregate	Aggregate	Gasoline	31310.70271	466482.8175	0	100.8426005	100842.6005	229036.0369	31995.21632	260029.2373	6.45	SBUS	
South Coast	2022	LHDT2	Aggregate	Aggregate	Diesel	41221.34914	518512.7157	0	101.1257327	101125.7327	115961.1562	693436.26	3.38	UBUS		
South Coast	2022	MCY	Aggregate	Aggregate	Gasoline	232866.3127	465732.6253	0	36.03993715	36039.93715	1478622.183	4103				
South Coast	2022	MDV	Aggregate	Aggregate	Gasoline	1546490.389	7140651.876	0	3192.182291	3192182.291	3233168.731	58964077.19	60366385.9	18.67	MDV	
South Coast	2022	MDV	Aggregate	Aggregate	Diesel	19342.84345	91596.79576	0	34.03297982	34032.97982	777527.7955	249064.5022				
South Coast	2022	MDV	Aggregate	Aggregate	Electricity	6696.74782	34502.63749	96159.45426	0	0	375716.4182	295792.8678	5.67	MH		
South Coast	2022	MDV	Aggregate	Aggregate	Plug-in Hybrid	8117.761373	33566.94328	55475.93063	6.953460429	6953.460429	111949.5066	6218651.542	7.59	MHDT		
South Coast	2022	MH	Aggregate	Aggregate	Gasoline	31850.36852	3186.310866	0	60.85222666	60852.22666	71928.89964	407742.3745	5.67	MH		
South Coast	2022	MH	Aggregate	Aggregate	Diesel	11356.53565	1135.653565	0	11.07667298	11076.67298	111949.5066	6218651.542	7.59	MHDT		
South Coast	2022	MHDT	Aggregate	Aggregate	Gasoline	26007.04178	520348.8919	0	274.1467882	274146.7882	1387695.111	4766318.794				
South Coast	2022	MHDT	Aggregate	Aggregate	Diesel	111240.7041	1363402.45	0	537.3888811	537388.8811	64637.63673	490521.1159	5.94	OBUS		
South Coast	2022	MHDT	Aggregate	Aggregate	Natural Gas	1338.762023	12270.86005	0	7.857061417	7857.061417	229489.8627	490521.1159	5.94	OBUS		
South Coast	2022	OBUS	Aggregate	Aggregate	Gasoline	5619.001977	112424.9916	0	46.10429672	46104.29672	82591.31041	229489.8627	490521.1159	5.94	OBUS	
South Coast	2022	OBUS	Aggregate	Aggregate	Diesel	2896.768075	36743.40436	0	32.79511564	32795.11564	229036.0369	31995.21632	260029.2373	6.45	SBUS	
South Coast	2022	OBUS	Aggregate	Aggregate	Natural Gas	537.7361163	4785.851433	0	3.691898056	3691.898056	115961.1562	693436.26	3.38	UBUS		
South Coast	2022	SBUS	Aggregate	Aggregate	Gasoline	2656.068282	10624.27313	0	13.13398403	13133.98403	115961.1562	693436.26	3.38	UBUS		
South Coast	2022	SBUS	Aggregate	Aggregate	Diesel	3463.174133	50146.76145	0	9.812107071	9812.107071	71631.6642	72436.41685				
South Coast	2022	SBUS	Aggregate	Aggregate	Natural Gas	2857.078854	41370.50181	0	17.36932074	17369.32074	96764.45551	693436.26	3.38	UBUS		
South Coast	2022	UBUS	Aggregate	Aggregate	Gasoline	892.5609011	3570.243605	0	14.15154342	14151.54342	1863.133553	2542.871299				
South Coast	2022	UBUS	Aggregate	Aggregate	Diesel	15.79905129	63.19620517	0	0.277029151	277.0291511	592265.7996					
South Coast	2022	UBUS	Aggregate	Aggregate	Electricity	58.06621632	232.2648653	5333.126445	0	0	190.8624835	190862.4835				
South Coast	2022	UBUS	Aggregate	Aggregate	Natural Gas	4946.181814	19784.72726	0	190.8624835	190862.4835	592265.7996					



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