

APPENDIX AQ-1

AIR QUALITY AND GREENHOUSE GAS IMPACT ANALYSIS



June 5, 2024

Julie Newton
Environmental Coordinator, Sacramento County
Planning and Environmental Review
827 7th street, Room 225
Sacramento, CA 95814

newtonj@sacounty.gov

Subject: **Upper Westside Specific Plan Project**

Dear Mrs. Newton,

Thank you for providing the March 2024 Air Quality and Greenhouse Gas Impact Analysis and the March 2022 Air Quality Mitigation Plan (AQMP) for the Upper Westside Specific Plan Project.

By way of this letter, District staff are verifying that we have reviewed the Upper Westside Air Quality and Greenhouse Gas Impact Analysis and find that it consistent with the District's CEQA guidance on greenhouse gas and air quality plans. The District also finds that the AQMP will, through on-site and off-site measures, achieve a 35 percent reduction in ozone precursors generated by mobile sources over the baseline project conditions.

Please contact me at rmuzzy@airquality.org or (279) 207-1139 if you have any questions regarding this verification of technical adequacy.

Sincerely,

A handwritten signature in black ink that reads "Rich Muzzy".

Rich Muzzy
Associate Air Quality Planner/Analyst

cc: Paul Philley, AICP, Program Supervisor

Air Quality and Greenhouse Gas Impact Analysis

Upper Westside Specific Plan Project

Prepared for:
Upper Westside LLC

June 2024

Prepared by



1501 SPORTS DRIVE, SUITE A, SACRAMENTO, CA 95834

Upper Westside Specific Plan Project Air Quality and Greenhouse Gas Impact Analysis

Prepared By

Raney Planning and Management, Inc.
1501 Sports Drive, Suite A
Sacramento, CA 95834
(916) 372-6100

Contact:
Rod Stinson
Vice President



TABLE OF CONTENTS

1. INTRODUCTION	1
2. PROJECT LOCATION	1
3. PROJECT SUMMARY	1
4. EXISTING ENVIRONMENTAL SETTING	8
5. REGULATORY CONTEXT	19
6. IMPACTS AND MITIGATION MEASURES	35
Method of Analysis	38
Impact AQ-1	45
Impact AQ-2	54
Impact AQ-3	61
Impact AQ-4	64
Impact GHG-1	65
7. SOURCES	76

Appendices

Appendix A	CalEEMod Air Quality and Greenhouse Gas Modeling Results
Appendix B	GDF Calculations
Appendix C	AERMOD and HARP Modeling Results
Appendix D	SMAQMD Minor Project Health Effects Screening Tool
Appendix E	Air Quality Management Plan



1. INTRODUCTION

This Air Quality and Greenhouse Gas Impact Analysis identifies and analyzes the potential environmental impacts from the Upper Westside Specific Plan Project (proposed project) related to air quality and greenhouse gas (GHG) emissions. The information and analysis in this document are organized in accordance with the checklist in Appendix G of the California Environmental Quality Act (CEQA) Guidelines. The analysis includes a discussion of the existing air quality and GHG setting, the existing regulatory setting, as well as potential air quality and GHG impacts resulting from implementation of the project. In addition, the analysis includes mitigation measures warranted to reduce or eliminate any identified significant impacts. This analysis is based on the Sacramento Metropolitan Air Quality Management District (SMAQMD) CEQA Guide¹ and technical analysis performed by Raney Planning and Management, Inc. All modeling results are included as an appendix to this document.

2. PROJECT LOCATION

The proposed project is located northwest of Interstate 80 (I-80), north and east of the Sacramento River and the Sacramento County limits, west of the Witter Canal, and south of Fisherman's Lake/Slough. The 2,066-acre site is outside of the Urban Policy Area and Urban Services Boundary in the Natomas New Growth Area, and is predominantly agricultural land with existing commercial uses, including a truck stop, restaurants, gas stations, and hotels located west of the I-80 off-/on-ramp (see Figure 1 and Figure 2).

Surrounding existing land uses include the Sacramento River to the south and west; agricultural land to the west; I-80, multi-family residences, and a business park to the east; and single-family residences to the east, west, north, and south.

The Sacramento County General Plan designates the site as Agricultural Cropland, Agricultural Residential, Commercial/Office, and Recreation and the site is zoned Agricultural, Agricultural Residential, General Commercial, and Highway Travel Commercial.

3. PROJECT SUMMARY

The proposed project would create a Specific Plan for the Upper Westside planning area, which would include 9,231 residential dwelling units, 130.5 acres of commercial uses, 147.1 acres of schools, 73.2 acres of parks, 49.8 acres of open space, 83.9 acres of agricultural residences, and 407.6 acres of agricultural cropland (see Figure 3). The project would also include roadway improvements, including the expansion of El Centro Road and the development of additional roadways throughout the project site.

The project would require County approval of the following entitlements:

1. **Amend the Urban Services Boundary** to include the Upper Westside Development Area.
2. **Amend the Urban Policy Area (UPA)** to include the Upper Westside Plan Development Area.
Amend the General Plan Land Use Element and Land Use Diagram to change the land use designations for the Upper Westside Development Area (1,532 acres) from Agricultural Cropland (1,825.8± acres), Agriculture Residential (97.0± acres), Recreation (55.3±), and Commercial and Offices (49.5± acres) to Low Density Residential (805.4±

¹ Sacramento Metropolitan Air Quality Management District. *CEQA Guide*. April 2020.



Figure 1 Regional Project Location

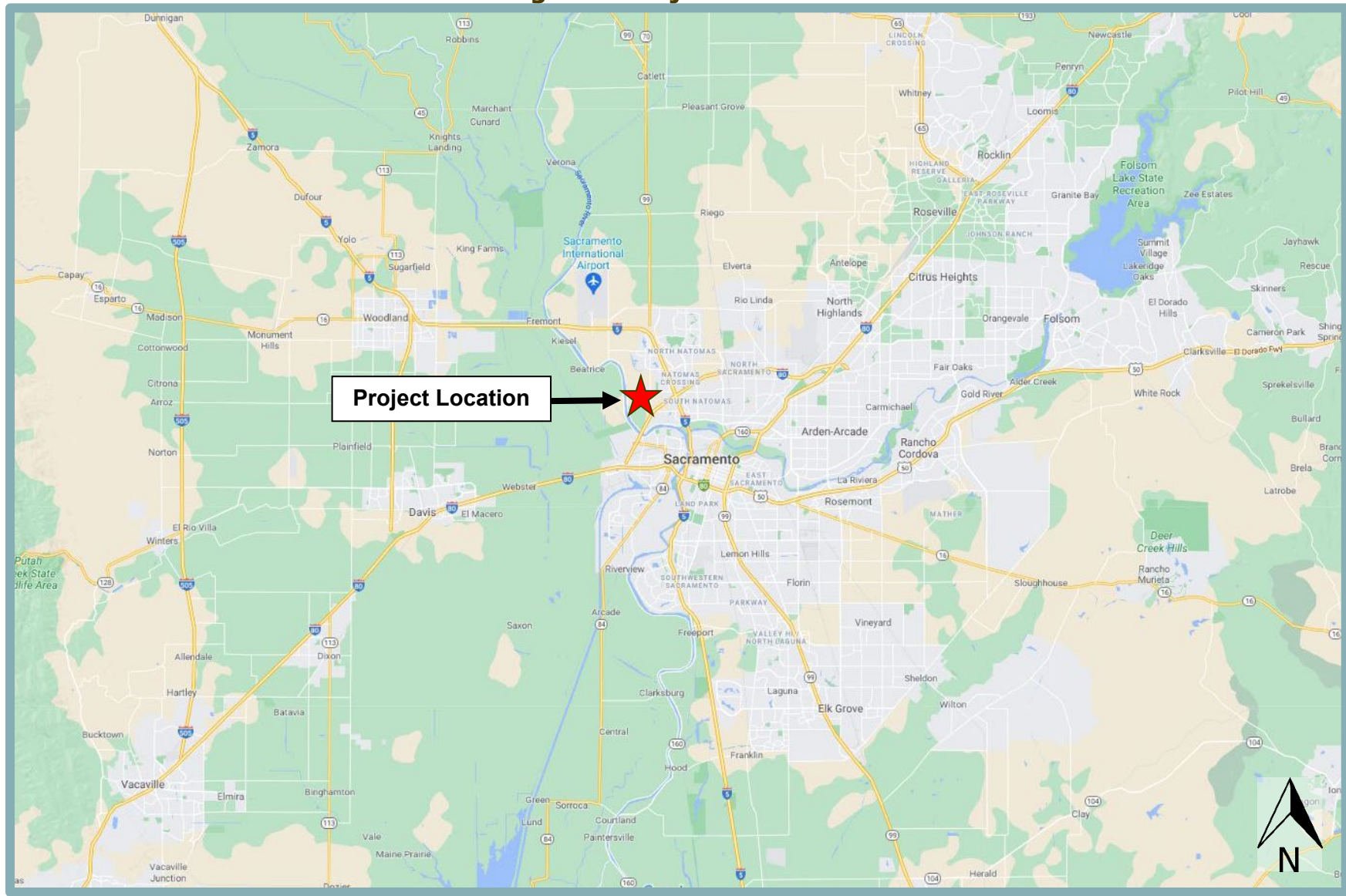


Figure 2
Project Site

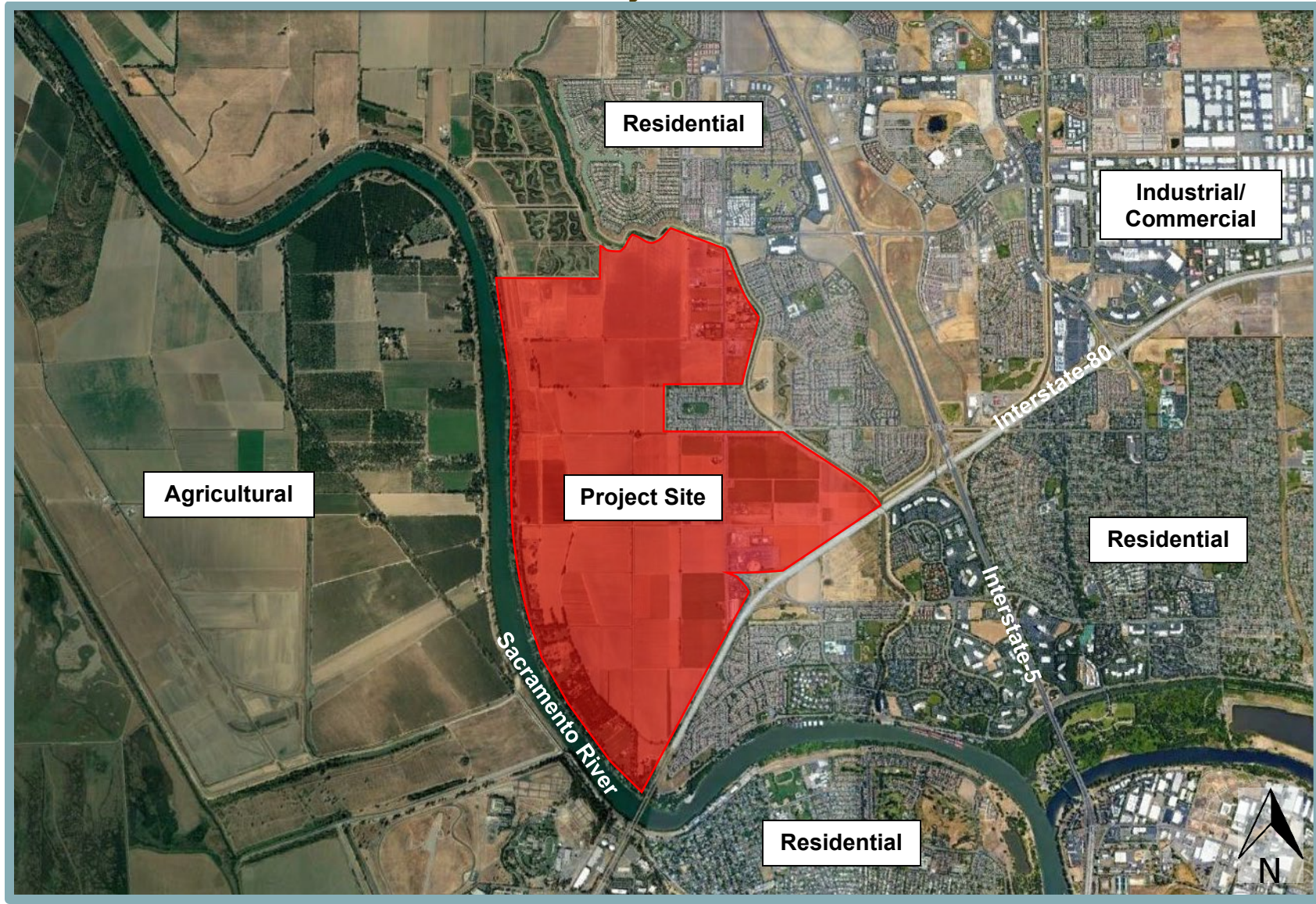
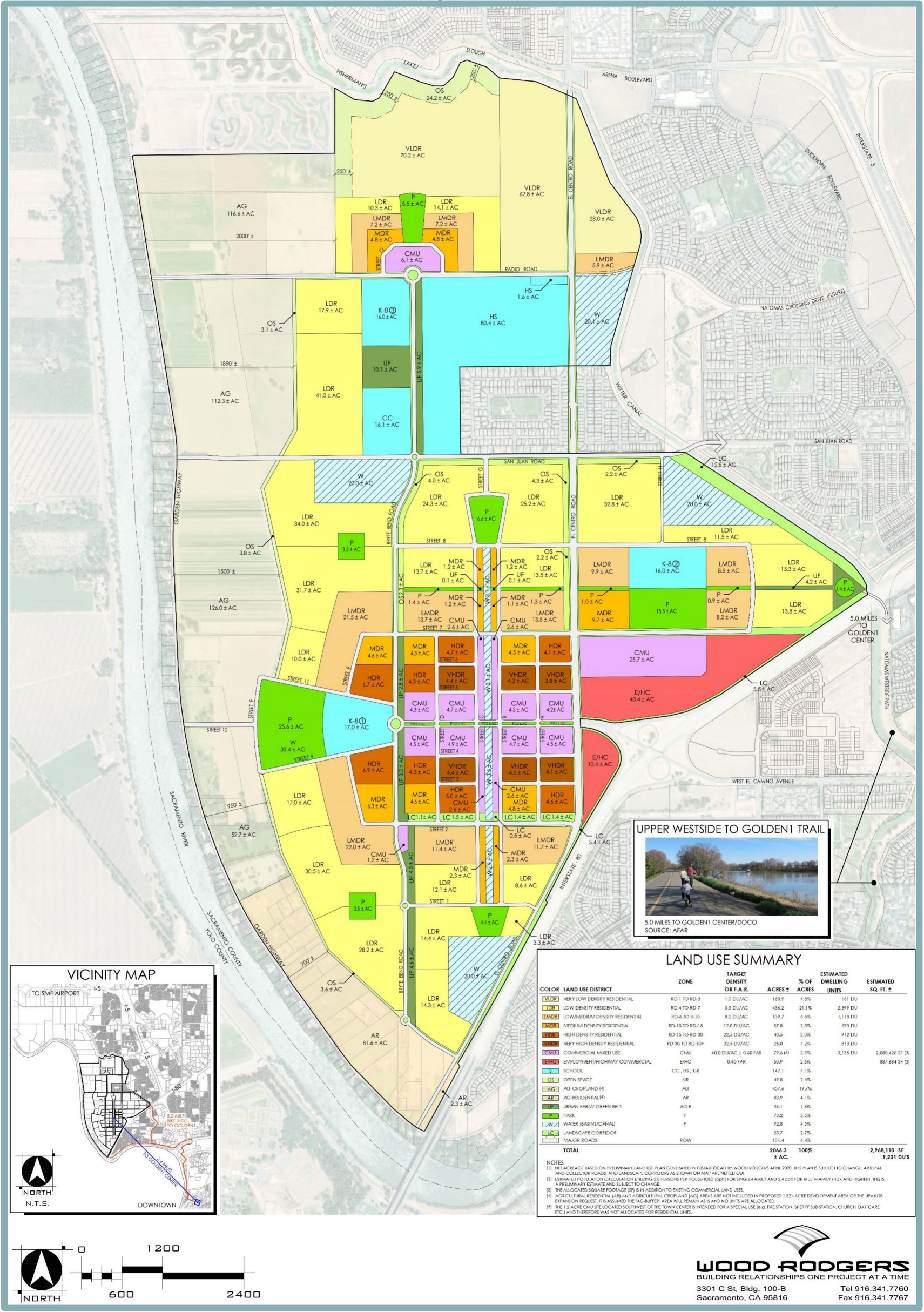


Figure 3
Preliminary Land Use Plan



acres), Medium Density Residential (41.4± acres), High Density Residential (25.4± acres), Commercial and Office (52.2± acres), Mixed Use (81.5± acres), Public/Quasi-Public (149.0± acres), Recreation (288.5± acres), Agricultural Cropland (407.6± acres) and Agricultural Residential (83.9± acres). The General Plan designations on parcels within the Ag Buffer area (534 acres) are proposed to remain unchanged (see Figure 4).

3. **Amend the General Plan Transportation Plan Diagram** to include the roadway system as designated for the Upper Westside Plan Area by the Specific Plan document.
4. **Amend the General Plan Bicycle Master Plan Diagram** to include the bikeway system as designated for the Upper Westside Plan Area by the Specific Plan document.
5. **Amend General Plan Text** to modify several policies within various elements of the General Plan.
6. **Amend the Zoning Diagram** to change the Zoning Designations for the Participating Properties (292± acres) within the Development Area of the Upper Westside Plan Area from AG-40 to Special Planning Area (SPA) (see Figure 5).
7. **Adopt the Upper Westside Specific Plan** document to establish land use, zoning, and development standards for the parcels located within the Development Area. The Specific Plan document will discuss and provide direction for the Very Low Density Residential VLDR (160.9± acres), Low Density Residential LDR (436.2± acres), Low Medium Density Residential LMDR (139.7± acres), Medium Density Residential MDR (57.8± acres), High Density Residential HDR (40.5± acres), Very High Density Residential (25.0± acres), Commercial Mixed Use CMU (79.6± acres), and Employment/Highway Commercial E/HC-SP (50.9± acres).
8. **Adopt an Urban Services Plan** for the Upper Westside Plan Development Area.
9. **Adopt an Affordable Housing Strategy** for the Upper Westside Plan Development Area.
10. **Adopt a Water Supply Master Plan** for the Upper Westside Plan Development Area.
11. **Approve a Water Supply Assessment (WSA)** for the Upper Westside Plan Development Area.
12. **Adopt a Public Facilities Financing Plan** for the Upper Westside Plan Development Area.
13. **Adopt a Reimbursement Fee** so that non-participating property owners within the Development Area can reimburse the sponsoring/participating property owners for the cost to prepare and process a Specific Plan and EIR for the Upper Westside Plan Area.
14. **Adopt a Development Agreement** for the sponsoring/participating property owners, controlling 295± acres, located within the Upper Westside Plan Development Area.

In addition to the above entitlements, separate Service District Annexation requests for the Upper Westside Plan Area are proposed to include:

- Annexation to County Service Area 10 (CSA-10) or the creation of a new CSA.
- Annexation to Sacramento Regional County Sanitation District (Regional San).
- Annexation to Sacramento Area Sewer District (SASD).

The following analysis assesses air quality impacts resulting from construction and operations of the proposed project.



Figure 4
General Plan Amendment Exhibit

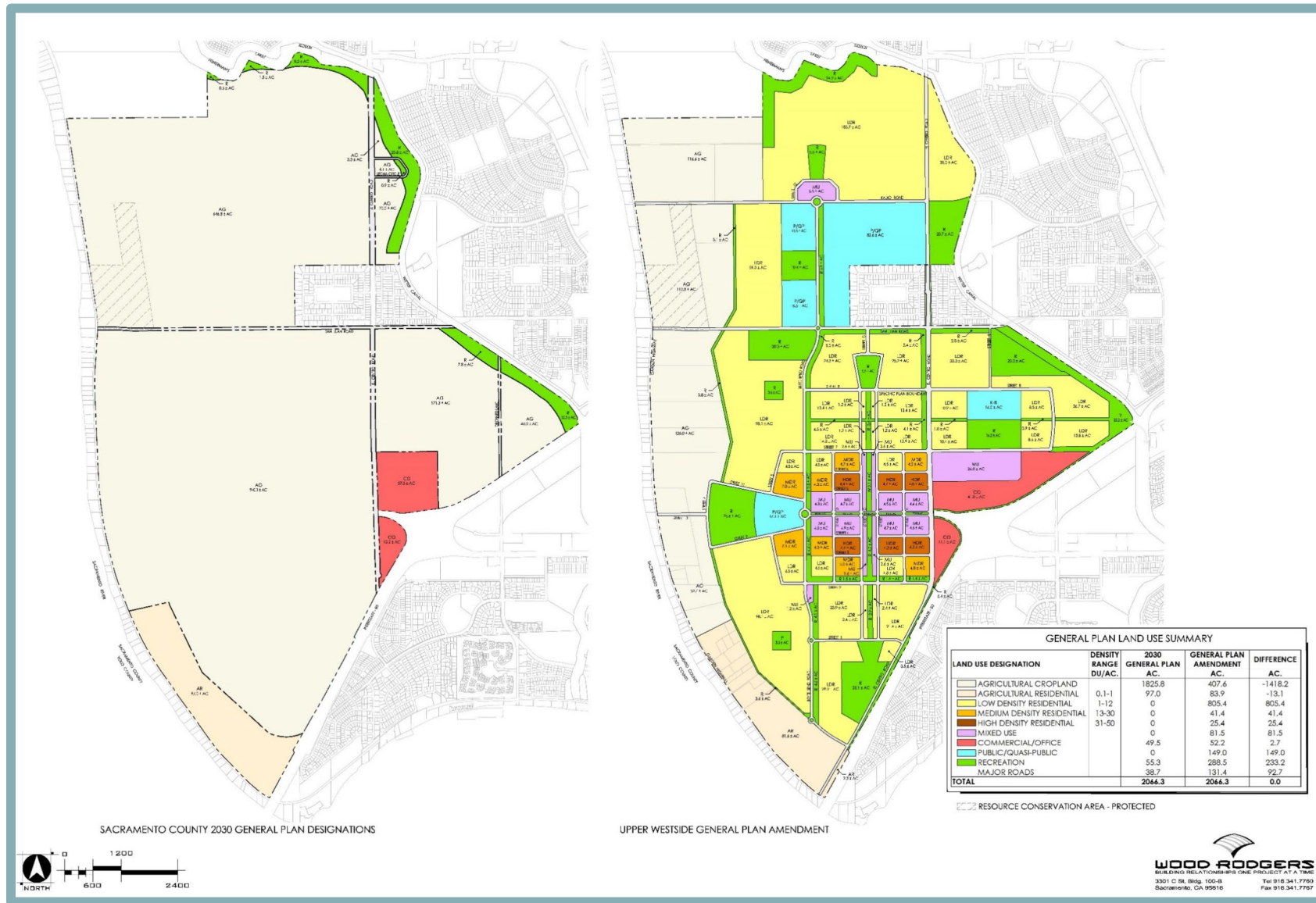
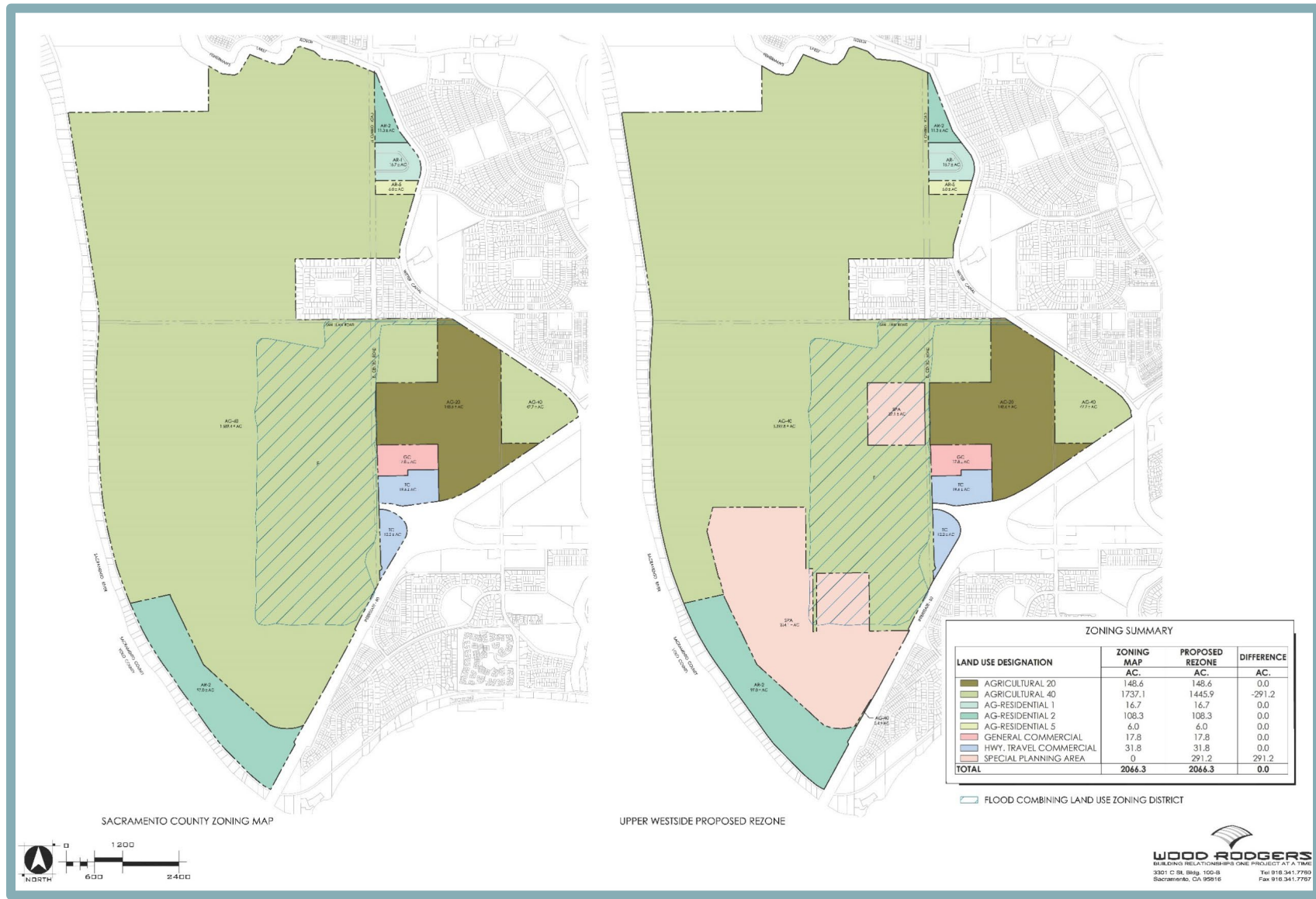


**Figure 5
Rezone Exhibit**



4. EXISTING ENVIRONMENTAL SETTING

The following information provides an overview of the existing environmental setting in relation to air quality within the proposed project area. Air basin characteristics, ambient air quality standards (AAQS), attainment status and regional air quality plans, local air quality monitoring, odors, sensitive receptors and GHGs are discussed.

Air Basin Characteristics

The project site is located within the Sacramento Valley Air Basin (SVAB) and is within the jurisdictional boundaries of the SMAQMD. The SVAB is in the northern half of California's Great Valley and is bordered on three sides by mountain ranges. Air flows into the SVAB through the Carquinez Strait, moves across the Delta and carries pollutants from the heavily populated San Francisco Bay Area into the SVAB. The prevailing winds are moderate in strength and vary from moist clean breezes from the south to dry land flows from the north.

Most precipitation in the SVAB results from air masses moving in from the Pacific Ocean during the winter months. Storms usually move through the area from the west or northwest. During the winter rainy season (November through February) over half the total annual precipitation falls while the average winter temperature is a moderate 49 degrees Fahrenheit. During the summer, daytime temperatures can exceed 100 degrees Fahrenheit. Dense fog occurs mostly in mid-winter and rarely in the summer. Daytime temperatures from April through October average between 60- and 80-degrees Fahrenheit with low humidity. The inland location and surrounding mountains shelter the valley from much of the ocean breeze that keeps the coastal regions moderate in temperature. The only breach in the mountain barrier is the Carquinez Strait, which exposes the midsection of the valley to the coastal air mass.

Ambient Air Quality Standards

Both the U.S. Environmental Protection Agency (USEPA) and the California Air Resources Board (CARB) have established AAQS for common pollutants. The federal standards are divided into primary standards, which are designed to protect the public health, and secondary standards, which are designed to protect the public welfare. The AAQS for each contaminant represent safe levels that avoid specific adverse health effects. Pollutants for which AAQS have been established are called "criteria" pollutants. Table 1 identifies the major pollutants, characteristics, health effects and typical sources. The national and California AAQS (NAAQS and CAAQS, respectively) are summarized in Table 2. The NAAQS and CAAQS were developed independently with differing purposes and methods. As a result, the federal and State standards differ in some cases. In general, the State of California standards are more stringent than the federal standards, particularly for ozone and particulate matter (PM).

A description of each criteria pollutant and its potential health effects is provided below.

Ozone

Ozone is a reactive gas consisting of three oxygen atoms. In the troposphere, ozone is a product of the photochemical process involving the sun's energy, and is a secondary pollutant formed as a result of a complex chemical reaction between reactive organic gases (ROG) and oxides of nitrogen (NO_x) emissions in the presence of sunlight. As such, unlike other pollutants, ozone is not released directly into the atmosphere from any sources. In the stratosphere, ozone exists naturally and shields Earth from harmful incoming ultraviolet radiation. The primary source of ozone precursors is mobile sources, including cars, trucks, buses, construction equipment, and agricultural equipment. Ground-level ozone reaches the highest level during the afternoon and early evening hours. High levels occur most often during the summer months.



**Table 1
Summary of Criteria Pollutants**

Pollutant	Characteristics	Health Effects	Major Sources
Ozone	A highly reactive gas produced by the photochemical process involving a chemical reaction between the sun's energy and other pollutant emissions. Often called photochemical smog.	• Eye irritation • Wheezing, chest pain, dry throat, headache, or nausea • Aggravated respiratory disease such as emphysema, bronchitis, and asthma	Combustion sources such as factories, automobiles, and evaporation of solvents and fuels.
Carbon Monoxide	An odorless, colorless, highly toxic gas that is formed by the incomplete combustion of fuels.	• Impairment of oxygen transport in the bloodstream • Impaired vision, reduced alertness, chest pain, and headaches • Can be fatal in the case of very high concentrations	Automobile exhaust, combustion of fuels, and combustion of wood in woodstoves and fireplaces.
Nitrogen Dioxide	A reddish-brown gas that discolors the air and is formed during combustion of fossil fuels under high temperature and pressure.	• Lung irritation and damage • Increased risk of acute and chronic respiratory disease	Automobile and diesel truck exhaust, industrial processes, and fossil-fueled power plants.
Sulfur Dioxide	A colorless, irritating gas with a rotten egg odor formed by combustion of sulfur-containing fossil fuels.	• Aggravation of chronic obstruction lung disease • Increased risk of acute and chronic respiratory disease	Diesel vehicle exhaust, oil-powered power plants, and industrial processes.
Particulate Matter (PM ₁₀ and PM _{2.5})	A complex mixture of extremely small particles and liquid droplets that can easily pass through the throat and nose and enter the lungs.	• Aggravation of chronic respiratory disease • Heart and lung disease • Coughing • Bronchitis • Chronic respiratory disease in children • Irregular heartbeat • Nonfatal heart attacks	Combustion sources such as automobiles, power generation, industrial processes, and wood burning. Also from unpaved roads, farming activities, and fugitive windblown dust.
Lead	A metal found naturally in the environment as well as in manufactured products.	• Loss of appetite, weakness, apathy, and miscarriage • Lesions of the neuromuscular system, circulatory system, brain, and gastrointestinal tract	Industrial sources and combustion of leaded aviation gasoline.

Sources:

- **California Air Resources Board. California Ambient Air Quality Standards (CAAQS).** Available at: <http://www.arb.ca.gov/research/aaqs/caaqs/caaqs.htm>. Accessed August 2021.
- **Sacramento Metropolitan, El Dorado, Feather River, Placer, and Yolo-Solano Air Districts: Sacramento Region Spare the Air. Air Quality Information for the Sacramento Region.** Available at: <http://www.sparetheair.com/health.cfm?page=healthoverall>. Accessed August 2021.
- **California Air Resources Board. Glossary of Air Pollution Terms.** Available at: <http://www.arb.ca.gov/html/gloss.htm>. Accessed August 2021.



Table 2
Ambient Air Quality Standards

Pollutant	Averaging Time	CAAQS	NAAQS	
			Primary	Secondary
Ozone	1 Hour	0.09 ppm	-	Same as primary
	8 Hour	0.070 ppm	0.070 ppm	
Carbon Monoxide	8 Hour	9 ppm	9 ppm	-
	1 Hour	20 ppm	35 ppm	
Nitrogen Dioxide	Annual Mean	0.030 ppm	53 ppb	Same as primary
	1 Hour	0.18 ppm	100 ppb	-
Sulfur Dioxide	24 Hour	0.04 ppm	-	-
	3 Hour	-	-	0.5 ppm
	1 Hour	0.25 ppm	75 ppb	-
Respirable Particulate Matter (PM ₁₀)	Annual Mean	20 ug/m ³	-	Same as primary
	24 Hour	50 ug/m ³	150 ug/m ³	
Fine Particulate Matter (PM _{2.5})	Annual Mean	12 ug/m ³	12 ug/m ³	15 ug/m ³
	24 Hour	-	35 ug/m ³	Same as primary
Lead	30 Day Average	1.5 ug/m ³	-	-
	Calendar Quarter	-	1.5 ug/m ³	Same as primary
Sulfates	24 Hour	25 ug/m ³	-	-
Hydrogen Sulfide ¹	1 Hour	0.03 ppm	-	-
Vinyl Chloride ¹	24 Hour	0.010 ppm	-	-
Visibility Reducing Particles ²	8 Hour	see note below	-	-

Notes:

ppm = parts per million; ppb = parts per billion; ug/m³ = micrograms per cubic meter

¹ The emission of hydrogen sulfide is associated with geothermal activity, oil and gas production, refineries, sewage treatment, and confined animal feeding operations. Vinyl chloride is associated with the production of plastic products. The proposed project does not have the potential to generate hydrogen sulfide or vinyl chloride and, thus, such pollutants are not discussed further in this analysis.

² Statewide Visibility Reducing Particle Standard (except Lake Tahoe Air Basin): Particles in sufficient amount to produce an extinction coefficient of 0.23 per kilometer when the relative humidity is less than 70 percent. This standard is intended to limit the frequency and severity of visibility impairment due to regional haze and is equivalent to a 10-mile nominal visual range.

Source: California Air Resources Board. Ambient Air Quality Standards. May 4, 2016. Available at: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>. Accessed August 2021.

Ground-level ozone is a strong irritant that could cause constriction of the airways, forcing the respiratory system to work harder in order to provide oxygen. Ozone at the Earth's surface causes numerous adverse health effects and is a major component of smog. High concentrations of ground level ozone can adversely affect the human respiratory system and aggravate cardiovascular disease and many respiratory ailments.

Reactive Organic Gas

ROG refers to a group of reactive chemical gas composed of hydrocarbon compounds, typically found in paints and solvents, that contributes to the formation of smog and ozone by involvement in atmospheric chemical reactions. Because ROG is the umbrella term used to identify several types of ozone precursors, and ozone has its own health standard, a separate health standard does not exist for ROG. However, some compounds that make up ROG are toxic, such as the carcinogen benzene.



Oxides of Nitrogen

NO_x are a family of gaseous nitrogen compounds and are precursors to the formation of ozone and particulate matter. The major component of NO_x, nitrogen dioxide (NO₂), is a reddish-brown gas that discolors the air and is toxic at high concentrations. NO_x results primarily from the combustion of fossil fuels under high temperature and pressure. On-road and off-road motor vehicles and fuel combustion are the major sources of NO_x. NO_x reacts with ROG to form smog, which could result in adverse impacts to human health, damage the environment, and cause poor visibility. Additionally, NO_x emissions are a major component of acid rain. Health effects related to NO_x include lung irritation and lung damage and can cause increased risk of acute and chronic respiratory disease.

Carbon Monoxide

Carbon monoxide (CO) is a colorless, odorless, poisonous gas produced by incomplete burning of carbon-based fuels such as gasoline, oil, and wood. When CO enters the body, the CO combines with chemicals in the body, which prevents blood from carrying oxygen to cells, tissues, and organs. Symptoms of exposure to CO can include problems with vision, reduced alertness, and general reduction in mental and physical functions. Exposure to CO can result in chest pain, headaches, reduced mental alertness, and death at high concentrations.

Sulfur Dioxide

Sulfur Dioxide (SO₂) is a colorless, irritating gas with a rotten egg odor formed primarily by the combustion of sulfur-containing fossil fuels from mobile sources, such as locomotives, ships, and off-road diesel equipment. SO₂ is also emitted from several industrial processes, such as petroleum refining and metal processing. Similar to airborne NO_x, suspended sulfur oxide particles contribute to poor visibility. The sulfur oxide particles are also a component of particulate matter that is 10 micrometers in diameter and smaller (PM₁₀). Exposure to SO₂ can result in aggravation of chronic obstruction lung disease and increased risk of acute and chronic respiratory disease

Particulate Matter

Particulate matter, also known as particle pollution or PM, is a complex mixture of extremely small particles and liquid droplets. Particle pollution 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 impacts. The USEPA is concerned about PM₁₀ because those are the particles that generally pass through the throat and nose and enter the lungs. Once inhaled, the particles could affect the heart and lungs and cause serious health effects. USEPA groups particle pollution into three categories based on their size and where they are deposited:

- "Inhalable coarse particles (PM_{2.5-10})," which are found near roadways and dusty industries, are between 2.5 and 10 micrometers in diameter. PM_{2.5-10} is deposited in the thoracic region of the lungs.
- "Fine particles (PM_{2.5})," which are found in smoke and haze, are 2.5 micrometers in diameter and smaller. PM_{2.5} particles could be directly emitted from sources such as forest fires, or could form when gases emitted from power plants, industries, and automobiles react in the air. They penetrate deeply into the thoracic and alveolar regions of the lungs.
- "Ultrafine particles (UFP)," are very, very small particles (less than 0.1 micrometers in diameter) largely resulting from the combustion of fossil fuels, meat, wood, and other hydrocarbons. While UFP mass is a small portion of PM_{2.5}, their high surface area, deep lung penetration, and transfer into the bloodstream could result in disproportionate health



impacts relative to their mass. UFP is not currently regulated separately, but is analyzed as part of PM_{2.5}.

PM₁₀, PM_{2.5}, and UFP include primary pollutants, which are emitted directly to the atmosphere and secondary pollutants, which are formed in the atmosphere by chemical reactions among precursors. Generally speaking, PM_{2.5} and UFP are emitted by combustion sources like vehicles, power generation, industrial processes, and wood burning, while PM₁₀ sources include the same sources plus roads and farming activities. Fugitive windblown dust and other area sources also represent a source of airborne dust. Long-term PM pollution, especially fine particles, could result in significant health problems including, but not limited to, the following: increased respiratory symptoms, such as irritation of the airways, coughing or difficulty breathing; decreased lung function; aggravated asthma; development of chronic respiratory disease in children; development of chronic bronchitis or obstructive lung disease; irregular heartbeat; heart attacks; and increased blood pressure.

Visibility Reducing Particles

Visibility Reducing Particles are a mixture of suspended particulate matter consisting of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. The standard is intended to limit the frequency and severity of visibility impairment due to regional haze and is equivalent to a 10-mile nominal visual range.

Lead

Lead is a relatively soft and chemically resistant metal that is a natural constituent of air, water, and the biosphere. Lead is neither created nor destroyed in the environment, and, thus, essentially persists forever. Lead forms compounds with both organic and inorganic substances. As an air pollutant, lead is present in small particles. Sources of lead emissions in California include a variety of industrial activities. Gasoline-powered automobile engines were a major source of airborne lead through the use of leaded fuels. The use of leaded fuel has been mostly phased out, with the result that ambient concentrations of lead have dropped dramatically. However, because lead was emitted in large amounts from vehicles when leaded gasoline was used, lead is present in many soils (especially urban soils) as a result of airborne dispersion and could become re-suspended into the air.

Because lead is only slowly excreted by the human body, exposures to small amounts of lead from a variety of sources could accumulate to harmful levels. Effects from inhalation of lead above the level of the ambient air quality standard may include impaired blood formation and nerve conduction. Lead can adversely affect the nervous, reproductive, digestive, immune, and blood-forming systems. Symptoms could include fatigue, anxiety, short-term memory loss, depression, weakness in the extremities, and learning disabilities in children. Lead also causes cancer.

Sulfates

Sulfates are the fully oxidized ionic form of sulfur and are colorless gases. Sulfates occur in combination with metal and/or hydrogen ions. In California, emissions of sulfur compounds occur primarily from the combustion of petroleum-derived fuels (e.g., gasoline and diesel fuel) that contain sulfur. The sulfur is oxidized to SO₂ during the combustion process and subsequently converted to sulfate compounds in the atmosphere. The conversion of SO₂ to sulfates takes place comparatively rapidly and completely in urban areas of California due to regional meteorological features.



The sulfates standard established by CARB is designed to prevent aggravation of respiratory symptoms. Effects of sulfate exposure at levels above the standard include a decrease in ventilatory function, aggravation of asthmatic symptoms, and an increased risk of cardio-pulmonary disease. Sulfates are particularly effective in degrading visibility, and, because they are usually acidic, can harm ecosystems and damage materials and property. The SVAB is in attainment for the sulfate CAAQS.

Toxic Air Contaminants

In addition to the criteria pollutants discussed above, Toxic Air Contaminants (TACs) are also a category of environmental concern. TACs are present in many types of emissions with varying degrees of toxicity. Public exposure to TACs can result from emissions from normal operations, as well as accidental releases. Common stationary sources of TACs include gasoline stations, dry cleaners, and diesel backup generators, which are subject to SMAQMD stationary source permit requirements. The other, often more significant, common source type is on-road motor vehicles, such as cars and trucks, on freeways and roads, and off-road sources such as construction equipment, ships, and trains.

Fossil fueled combustion engines, including those used in cars, trucks, and some pieces of construction equipment, release at least 40 different TACs. In terms of health risks, the most volatile contaminants are diesel particulate matter (DPM), benzene, formaldehyde, 1,3-butadiene, toluene, xylenes, and acetaldehyde. Gasoline vapors contain several TACs, including benzene, toluene, and xylenes. Diesel engines emit a complex mixture of air pollutants, including both gaseous and solid material. The solid material in diesel exhaust, DPM, is composed of carbon particles and numerous organic compounds, including over 40 known cancer-causing organic substances. Examples of such chemicals include polycyclic aromatic hydrocarbons, benzene, formaldehyde, acetaldehyde, acrolein, and 1,3-butadiene. Diesel exhaust also contains gaseous pollutants, including volatile organic compounds and NO_x. Due to the published evidence of a relationship between diesel exhaust exposure and lung cancer and other adverse health effects, the CARB has identified DPM from diesel-fueled engines as a TAC. Although a variety of TACs are emitted by fossil fueled combustion engines, the cancer risk due to DPM exposure represents a more significant risk than the other TACs discussed above.²

More than 90 percent of DPM is less than one micrometer in diameter, and, thus, DPM is a subset of PM_{2.5}. As a California statewide average, DPM comprises about eight percent of PM_{2.5} in outdoor air, although DPM levels vary regionally due to the non-uniform distribution of sources throughout the State. Most major sources of diesel emissions, such as ships, trains, and trucks, operate in and around ports, rail yards, and heavily-traveled roadways. Such areas are often located near highly populated areas. Thus, elevated DPM levels are mainly an urban problem, with large numbers of people exposed to higher DPM concentrations, resulting in greater health consequences compared to rural areas.

Due to the high levels of diesel activity, high volume freeways, stationary diesel engines, rail yards and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Construction-related activities also have the potential to generate concentrations of DPM from on-road haul trucks and off-road equipment exhaust emissions.

² California Air Resources Board. *Reducing Toxic Air Pollutants in California's Communities*. February 6, 2002.



The size of diesel particulates that are of the greatest health concern are fine particles (i.e., PM_{2.5}) and UFPs. UFPs have a small diameter (on the order of 0.1 micrometers).³ The small diameter of UFPs imparts the particulates with unique attributes, such as high surface areas and the ability to penetrate deeply into lungs. Once UFPs have been deposited in lungs, the small diameter allows the UFPs to be transferred to the bloodstream. The high surface area of the UFPs also allows for a greater adsorption of other chemicals, which are transported along with the UFPs into the bloodstream of the inhaler, where the chemicals can eventually reach critical organs.⁴ The penetration capability of UFPs may contribute to adverse health effects related to heart, lung, and other organ health.⁵ UFPs are a subset of DPM and activities that create large amounts of DPM, such as the operations involving heavy diesel-powered engines, also release UFPs.

Health risks from TACs are a function of both the concentration of emissions and the duration of exposure, which typically are associated with long-term exposure and the associated risk of contracting cancer. Health effects of exposure to TACs other than cancer include birth defects, neurological damage, and death. Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, State, and federal level. The identification, regulation, and monitoring of TACs is relatively new compared to criteria air pollutants that have established AAQS. TACs are regulated or evaluated on the basis of risk to human health rather than comparison to an AAQS or emission-based threshold.

Attainment Status and Regional Air Quality Plans

The Federal Clean Air Act (FCAA) and the California Clean Air Act (CCAA) require all areas of California to be classified as attainment, nonattainment, or unclassified as to their status with regard to the NAAQS and/or CAAQS. The FCAA and CCAA require that the CARB, based on air quality monitoring data, designate portions of the State where the federal or State AAQS are not met as “nonattainment areas.” Because of the differences between the national and State standards, the designation of nonattainment areas is different under the federal and State legislation. The FCAA requires areas violating the NAAQS to prepare an air quality control plan referred to as the State Implementation Plan (SIP). The CCAA requires local air pollution control districts to prepare air quality attainment plans. These plans must provide for district-wide emission reductions of five percent per year averaged over consecutive three-year periods or, provide for adoption of “all feasible measures on an expeditious schedule.”

As presented in Table 3, under the CCAA, Sacramento County has been designated nonattainment for the State one-hour ozone, State and federal eight-hour ozone, State PM₁₀, and Federal PM_{2.5} standards. The County is designated attainment or unclassified for all other AAQS. Due to the nonattainment designations, the SMAQMD, along with the other air districts in the SVAB region, is required to develop plans to attain the federal and State standards for ozone and particulate matter. The air quality plans include emissions inventories to measure the sources of air pollutants, to evaluate how well different control measures have worked, and show how air pollution would be reduced. In addition, the plans include the estimated future levels of pollution to ensure that the area would meet air quality goals. Each of the attainment plans currently in effect are discussed in further detail in the Regulatory Context section of this document.

³ South Coast Air Quality Management District. *Final 2012 Air Quality Management Plan*. December 2012.

⁴ Health Effects Institute. *Understanding the Health Effects of Ambient Ultrafine Particles*. January 2013.

⁵ South Coast Air Quality Management District. *Final 2012 Air Quality Management Plan*. December 2012.



Table 3
Sacramento County Attainment Status Designations

Pollutant	Averaging Time	California Standards	Federal Standards
Ozone	1 Hour	Nonattainment	Attainment
	8 Hour	Nonattainment	Nonattainment
Carbon Monoxide	8 Hour	Attainment	Attainment
	1 Hour	Attainment	Attainment
Nitrogen Dioxide	Annual Mean	Attainment	Unclassifiable/ Attainment
	1 Hour	Attainment	Unclassifiable/ Attainment
Sulfur Dioxide	24 Hour	Attainment	-
	1 Hour	Attainment	Attainment
Respirable Particulate Matter (PM ₁₀)	Annual Mean	Nonattainment	-
	24 Hour	Nonattainment	Attainment
Fine Particulate Matter (PM _{2.5})	Annual Mean	Attainment	Attainment
	24 Hour	-	Nonattainment
Lead	Rolling 3-Month Average	Attainment	Attainment
Sulfates	24 Hour	Attainment	-

Source: Sacramento Metropolitan Air Quality Management District. Air Quality Pollutants and Standards. Available at: <http://www.airquality.org/air-quality-health/air-quality-pollutants-and-standards>. Accessed August 2021.

Local Air Quality Monitoring

Air quality is monitored by CARB at various locations to determine which air quality standards are being violated, and to direct emission reduction efforts, such as developing attainment plans and rules, incentive programs, etc. The nearest local air quality monitoring station to the project site is the Woodland-Gibson Road station, located in Woodland, CA, approximately ten miles west of the project site. Data for NO₂ was not available for the Woodland-Gibson Road monitoring site; thus, such data was obtained from the next nearest site, the Davis-UCD Campus monitoring site. Table 4 shows historical occurrences of pollutant levels exceeding the State and federal AAQS for the three-year period from 2018 to 2020.

Table 4
Air Quality Data Summary (2018-2020)

Pollutant	Standard	Days Standard Was Exceeded		
		2018	2019	2020
1-Hour Ozone	State	1	0	1
	Federal	0	0	0
8-Hour Ozone	State	2	0	2
	Federal	0	0	0
24-Hour PM _{2.5}	Federal	12.3	*	*
24-Hour PM ₁₀	State	24.5	*	*
	Federal	6.1	0	*
1-Hour Nitrogen Dioxide	State	0	0	0
	Federal	0	0	0

Note: * indicates that sufficient data was not available to determine the value.

Source: California Air Resources Board. Aerometric Data Analysis and Management (iADAM) System. Available at <http://www.arb.ca.gov/adam/welcome.html>. Accessed September 2021.



Odors

While offensive odors rarely cause physical harm, they can be unpleasant, leading to considerable annoyance and distress among the public and can generate citizen complaints to local governments and air districts. Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, quantitative or formulaic methodologies to determine the presence of a significant odor impact do not exist. Adverse effects of odors on residential areas and other sensitive receptors warrant the closest scrutiny; but consideration should also be given to other land use types where people congregate, such as recreational facilities, worksites, and commercial areas. The potential for an odor impact is dependent on a number of variables including the nature of the odor source, distance between a receptor and an odor source, and local meteorological conditions.

One of the most important factors influencing the potential for an odor impact to occur is the distance between the odor source and receptors, also referred to as a buffer zone or setback. The greater the distance between an odor source and receptor, the less concentrated the odor emission would be when reaching the receptor.

Meteorological conditions also affect the dispersion of odor emissions, which determines the exposure concentration of odiferous compounds at receptors. The predominant wind direction in an area influences which receptors are exposed to the odiferous compounds generated by a nearby source. Receptors located upwind from a large odor source may not be affected due to the produced odiferous compounds being dispersed away from the receptors. Wind speed also influences the degree to which odor emissions are dispersed away from any area.

Odiferous compounds could be generated from a variety of source types including both construction and operational activities. Examples of common land use types that typically generate significant odor impacts include, but are not limited to wastewater treatment plants; sanitary landfills; composting/green waste facilities; recycling facilities; petroleum refineries; chemical manufacturing plants; painting/coating operations; rendering plants; and food packaging plants. The project site is not located in the vicinity of any land use types that are known to generate significant odor impacts.

Sensitive Receptors

Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, day care centers, playgrounds, and medical facilities. The northeastern and southeastern boundaries of the project site are characterized by residential land uses. Thus, in the project vicinity, the nearest sensitive receptors are primarily residences, as well as public schools, including Witter Ranch Elementary, Two Rivers Elementary, and Merryhill Preschool. The closest receptors are the residences located approximately 50 feet away, on the eastern side of the project site.

Greenhouse Gas Emissions

GHGs are gases that absorb and emit radiation within the thermal infrared range, trapping heat in the earth's atmosphere. Some GHGs occur naturally and are emitted into the atmosphere through both natural processes and human activities. Other GHGs are created and emitted solely through human activities. The principal GHGs that enter the atmosphere due to human activities are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and fluorinated carbons. Other common GHGs include water vapor, ozone, and aerosols. The increase in atmospheric



concentrations of GHG due to human activities has resulted in more heat being held within the atmosphere, which is the accepted explanation for global climate change.

The primary GHG emitted by human activities is CO₂, with the next largest components being CH₄ and N₂O. A wide variety of human activities result in the emission of CO₂. Some of the largest sources of CO₂ include the burning of fossil fuels for transportation, electricity production, and industrial processes, including plastic and cement production. The primary sources of CH₄ emissions include domestic livestock sources, decomposition of wastes in landfills, releases from natural gas systems, coal mine seepage, and manure management. The main human activities producing N₂O are agricultural soil management, fuel combustion in motor vehicles, nitric acid production, manure management, and stationary fuel combustion. Emissions of GHG by economic sector indicate that energy-related activities account for the majority of U.S. emissions. The transportation sector is the largest single-source of GHG emissions, and electricity production is the second largest source, followed by industrial activities. The agricultural, commercial, and residential sectors account for the remainder of GHG emission sources.⁶

Emissions of GHG are partially offset by uptake of carbon and sequestration in trees, agricultural soils, landfilled yard trimmings and food scraps, and absorption of CO₂ by the earth's oceans. Additional emission reduction measures for GHG could include, but are not limited to, compliance with local, State, or federal plans or strategies for GHG reductions, on-site and off-site mitigation, and project design features. Attainment concentration standards for GHGs have not been established by the federal or State government.

Global Warming Potential

Global Warming Potential (GWP) is one type of simplified index (based upon radiative properties) that can be used to estimate the potential future impacts of emissions of various gases. According to the USEPA, the GWP of a gas, or aerosol, to trap heat in the atmosphere is the “cumulative radiative forcing effects of a gas over a specified time horizon resulting from the emission of a unit mass of gas relative to a reference gas.” The reference gas for comparison is CO₂. GWP is based on a number of factors, including the heat-absorbing ability of each gas relative to that of CO₂, as well as the decay rate of each gas relative to that of CO₂. Each gas's GWP is determined by comparing the radiative forcing associated with emissions of that gas versus the radiative forcing associated with emissions of the same mass of CO₂, for which the GWP is set at one. Methane gas, for example, is estimated by the USEPA to have a comparative global warming potential 25 times greater than that of CO₂, as shown in Table 5.

As shown in the table, at the extreme end of the scale, sulfur hexafluoride is estimated to have a comparative GWP 22,800 times that of CO₂. The “specified time horizon” is related to the atmospheric lifetimes of such GHGs, which are estimated by the USEPA to vary from 50 to 200 years for CO₂, to 50,000 years for tetrafluoromethane. Longer atmospheric lifetimes allow GHG to buildup in the atmosphere; therefore, longer lifetimes correlate with the GWP of a gas. The common indicator for GHG is expressed in terms of metric tons of CO₂ equivalents (MTCO₂e), which is calculated based on the GWP for each pollutant.

⁶ U.S. Environmental Protection Agency. *Sources of Greenhouse Gas Emissions*. Available at: <https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions>. Accessed May 2021.



Table 5
GWPs and Atmospheric Lifetimes of Select GHGs

Gas	Atmospheric Lifetime (years)	GWP (100-year time horizon)
Carbon Dioxide (CO ₂)	See footnote ¹	1
Methane (CH ₄)	12	25
Nitrous Oxide (N ₂ O)	114	298
Hydrofluorocarbon (HFC)-23	270	14,800
HFC-134a	14	1,430
HFC-152a	1.4	124
PFC: Tetrafluoromethane (CF ₄)	50,000	7,390
PFC: Hexafluoroethane (C ₂ F ₆)	10,000	12,200
Sulfur Hexafluoride (SF ₆)	3,200	22,800
¹ For a given amount of carbon dioxide emitted, some fraction of the atmospheric increase in concentration is quickly absorbed by the oceans and terrestrial vegetation, some fraction of the atmospheric increase will only slowly decrease over a number of years, and a small portion of the increase will remain for many centuries or more.		
Source: USEPA. <i>Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2019 [Table 1-2]. April 14, 2021.</i>		

Effects of Global Climate Change

Uncertainties exist as to exactly what the climate changes will be in various areas of the Earth. According to the Intergovernmental Panel on Climate Change's Working Group I Report, *Climate Change 2021: The Physical Science Basins*,⁷ climate change impacts to North America may include:

- Increase in hot extremes;
- Change in heavy precipitation;
- Sea level rise;
- Ocean acidification;
- Strong declines in glaciers, permafrost, and snow cover;
- Increase in tropical cyclones, severe storms, and dust storms; and
- Agricultural and ecological droughts.

In the Sacramento region, specifically, global climate change hazards include extreme heat and flooding. California's Fourth Climate Change Assessment predicts that the Sacramento Valley region is expected to see an average daily temperature maximum increase of 10 degrees Fahrenheit by the end of the century. Additionally, Midtown Sacramento is anticipated to experience up to 40 days per year of extreme heat (>103.9 F), as compared to the approximately four days per year that occur now.⁸ Such extreme heat events pose a public health hazard. In addition to extreme heat, the Sacramento region is anticipated to experience more extreme floods, greater floodplain vulnerability, and higher Delta water levels.⁹ Although average annual

⁷ Intergovernmental Panel on Climate Change. *Climate Change 2021 The Physical Science Basin, Summary for Policymakers*. August 7, 2021.

⁸ Governor's Office of Planning and Research, California Energy Commission, and California Natural Resources Agency. *California's Fourth Climate Change Assessment, Sacramento Valley Region Report* [page 18]. August 2018.

⁹ *Ibid.*



precipitation is not anticipated to substantially change in the next 50 to 75 years, precipitation will likely be delivered in more intense storms and over the course of a shorter wet season.¹⁰

5. REGULATORY CONTEXT

Air quality and GHG emissions are monitored and regulated through the efforts of various international, federal, State, and local government agencies. Agencies work jointly and individually to improve air quality through legislation, regulations, planning, policy-making, education, and a variety of programs. The agencies responsible for regulating and improving the air quality within the project area and monitoring or reducing GHG emissions are discussed below.

Federal Regulations Related to Air Quality

The following discussion provides a summary of the federal regulations relevant to air quality, organized by pollutant type.

Criteria Pollutants

The FCAA, passed in 1970 and last amended in 1990, forms the basis for the national air pollution control effort. The USEPA is responsible for implementing most aspects of the FCAA, including setting NAAQS for major air pollutants; setting hazardous air pollutant standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric ozone protection measures, and enforcement provisions. Under the FCAA, NAAQS are established for the following criteria pollutants: ozone, CO, NO₂, SO₂, PM₁₀, PM_{2.5}, and lead.

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The NAAQS (other than for ozone, NO₂, SO₂, PM₁₀, PM_{2.5}, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for ozone, NO₂, SO₂, PM₁₀, PM_{2.5} are based on statistical calculations over one- to three-year periods, depending on the pollutant. The FCAA requires the USEPA to reassess the NAAQS at least every five years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. States with areas that exceed the NAAQS must prepare a state implementation plan that demonstrates how those areas will attain the standards within mandated time frames.

Hazardous Air Pollutants/Toxic Air Contaminants

The 1977 FCAA amendments required the USEPA to identify national emission standards for hazardous air pollutants to protect public health and welfare. Hazardous air pollutants include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 FCAA Amendments, which expanded the control program for hazardous air pollutants, 189 substances and chemical families were identified as hazardous air pollutants.

Federal Regulations Related to GHG Emissions

The following are the federal regulations relevant to GHG emissions.

¹⁰ Cal-Adapt. *Local Climate Change Snapshot for Sacramento, California*, Available at: <https://cal-adapt.org/tools/local-climate-change-snapshot>. Accessed March 2022.



Federal Vehicle Standards

In 2007, in response to the *Massachusetts v. EPA* U.S. Supreme Court ruling, the Bush Administration issued Executive Order (EO) 13432 directing the USEPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the National Highway Transportation Safety Administration (NHTSA) issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011; and, in 2010, the USEPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012 through 2016 (75 FR 25324–25728).

In 2010, President Obama issued a memorandum directing the Department of Transportation, Department of Energy, USEPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the USEPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017 through 2025 light-duty vehicles. The proposed standards were projected to achieve emission rates as low as 163 grams per mile of CO₂ by model year 2025 on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if the foregoing emissions level was achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017 through 2021 (77 FR 62624–63200), and NHTSA intended to set standards for model years 2022 through 2025 in future rulemaking.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the USEPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014 through 2018. The standards for CO₂ emissions and fuel consumption are tailored to three main vehicle categories: combination tractors; heavy-duty pickup trucks and vans; and vocational vehicles. According to the USEPA, this regulatory program reduced GHG emissions and fuel consumption for the affected vehicles by six to 23 percent over the 2010 baselines (76 FR 57106–57513).

In August 2016, the USEPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program applied to vehicles with model years 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types of sizes of buses and work trucks. The final standards were expected to lower CO₂ emissions by approximately 1.1 billion MT, and reduce oil consumption by up to two billion barrels over the lifetime of the vehicles sold under the program.

In August 2018, the USEPA and NHTSA proposed to amend certain Corporate Average Fuel Economy and GHG standards for passenger cars and light trucks and establish new, less-stringent standards for model years 2021 through 2026 (see 40 CFR Part 85, Part 86 and Part 600; and 49 CFR Part 523, Part 531, Part 533, Part 536, and Part 537). Compared to maintaining the post-2020 standards that were previously in place, the 2018 proposal would increase U.S. fuel consumption by approximately 0.5 million barrels per day, and would impact the global climate by 3/1000th of 1°C by 2100. California and other states stated their intent to challenge federal actions that would delay or eliminate GHG reduction measures, and committed to cooperating with other countries to implement global climate change initiatives.

On September 27, 2019, the USEPA and NHTSA published the *Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program* (84 FR 51,310), which became effective November 26, 2019. The Part One Rule revokes California's authority to set its own GHG



emissions standards and set zero-emission-vehicle mandates in California. On March 31, 2020, the USEPA and NHTSA issued the Part Two Rule, which sets CO₂ emissions standards and corporate average fuel economy standards for passenger vehicles and light-duty trucks for model years 2021 through 2026. On January 20, 2021, President Joe Biden issued an EO on Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis, which includes review of the Part One Rule by April 2021 and review of the Part Two Rule by July 2021. In response to the Part One Rule, in December 2021, the U.S. Department of Transportation withdrew its portions of the "SAFE I" rule. As a result, states are now allowed to issue their own GHG emissions standards and zero-emissions vehicle mandates.¹¹ In addition, the Part Two Rule was adopted to revise the existing national GHG emission standards for passenger cars and light trucks through model year 2026. These standards are the strongest vehicle emissions standards ever established for the light-duty vehicle sector, and will result in avoiding more than three billion tons of GHG emissions through 2050.¹²

State Regulations Related to Air Quality

The following discussion summarizes applicable State regulations related to air quality, organized by pollutant type. Only the most prominent and applicable California air quality-related legislation is included below; however, an exhaustive list and extensive details of California air quality legislation can be found at the CARB website (<http://www.arb.ca.gov/html/lawsregs.htm>).

Criteria Air Pollutants

The FCAA delegates the regulation of air pollution control and the enforcement of the NAAQS to the states. In California, the task of air quality management and regulation has been legislatively granted to CARB, with subsidiary responsibilities assigned to air quality management districts and air pollution control districts at the regional and county levels. CARB, which became part of the California Environmental Protection Agency in 1991, is responsible for ensuring implementation of the CCAA of 1988, responding to the FCAA, and regulating emissions from motor vehicles and consumer products.

CARB has established CAAQS, which are generally more restrictive than the NAAQS. The CAAQS describe adverse conditions; that is, pollution levels must be below these standards before a basin can attain the standard. Air quality is considered "in attainment" if pollutant levels are continuously below the CAAQS and do not violate the standards more than once each year. The CAAQS for ozone, CO, SO₂ (one-hour and 24-hour), NO₂, PM₁₀, PM_{2.5}, and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. The NAAQS and CAAQS are presented in Table 2.

Hazardous Air Pollutants/Toxic Air Contaminants

The State Air Toxics Program was established in 1983 under Assembly Bill (AB) 1807 (Tanner), and involved definition of a list of TACs. The California TAC list identifies more than 700 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. The State list of TACs includes the federally-designated hazardous air pollutants. In 1987, the Legislature enacted the Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) to address public concern over

¹¹ National Highway Traffic Safety Administration. *In Removing Major Roadblock to State Action on Emissions Standards, U.S. Department of Transportation Advances Biden-Harris Administration's Climate and Jobs Goals*. Available at: <https://www.nhtsa.gov/press-releases/cafe-preemption-final-rule>. Accessed March 2022.

¹² U.S. Environmental Protection Agency. *Final Rule to Revise Existing National GHG Emissions Standards for Passenger Cars and Light Trucks Through Model Year 2026*. Available at: <https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-revise-existing-national-ghg-emissions>. Accessed March 2022.



the release of TACs into the atmosphere. AB 2588 law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hot spots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over five years. TAC emissions from individual facilities are quantified and prioritized. “High-priority” facilities are required to perform a health risk assessment, and, if specific thresholds are exceeded, the facility operator is required to communicate the results to the public in the form of notices and public meetings.

CARB Air Quality and Land Use Handbook

CARB’s *Air Quality and Land Use Handbook: A Community Health Perspective* (CARB Handbook) addresses the importance of considering health risk issues when siting sensitive land uses, including residential development, in the vicinity of intensive air pollutant emission sources including freeways or high-traffic roads, distribution centers, ports, petroleum refineries, chrome plating operations, dry cleaners, and gasoline dispensing facilities (GDF).¹³ The CARB Handbook draws upon studies evaluating the health effects of traffic traveling on major interstate highways in metropolitan California centers within Los Angeles (Interstate-405 and Interstate-710), the San Francisco Bay, and San Diego areas. The recommendations identified by CARB, including siting residential uses a minimum distance of 500 feet from freeways or other high-traffic roadways, are consistent with those adopted by the State of California for location of new schools. Specifically, the CARB Handbook recommends, “Avoid siting new sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles/day, or rural roads with 50,000 vehicles/day”.¹⁴ Additionally, the CARB Handbook recommends avoiding locating sensitive receptors within 50 feet away from a “typical” GDF. “Typical” is defined as a GDF with a throughput of less than 3.6 million gallons of gasoline per year.

Importantly, the Introduction chapter of the CARB Handbook clarifies that the guidelines are strictly advisory, recognizing that: “[l]and use decisions are a local government responsibility. The CARB Handbook is advisory and these recommendations do not establish regulatory standards of any kind.” CARB recognizes that there may be land use objectives as well as meteorological and other site-specific conditions that need to be considered by a governmental jurisdiction relative to the general recommended setbacks, specifically stating, “[t]hese recommendations are advisory. Land use agencies have to balance other considerations, including housing and transportation needs, economic development priorities, and other quality of life issues”.¹⁵

Diesel Particulate Matter

In 2000, CARB approved a comprehensive diesel risk reduction plan to reduce diesel emissions, including DPM, from new and existing diesel-fueled vehicles and engines. The regulation is anticipated to result in an 80 percent decrease in statewide diesel health risk by 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment program. The aforementioned regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. Several Airborne Toxic Control Measures (ATCMs) exist that reduce diesel emissions, including In-Use Off-Road Diesel-Fueled Fleets (13 California

¹³ California Air Resources Board. *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005.

¹⁴ *Ibid.*

¹⁵ *Ibid.*



Code of Regulations [CCR] 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

Heavy-Duty Diesel Truck and Bus Regulation

CARB adopted the final Heavy-Duty Truck and Bus Regulation, Title 13, Division 3, Chapter 1, Section 2025, on December 31, 2014, to reduce DPM (black carbon) and NO_x emissions from heavy-duty diesel vehicles. The rule requires DPM filters be applied to newer heavier trucks and buses by January 1, 2012, with older vehicles required to comply by January 1, 2015. The rule requires nearly all diesel trucks and buses to be compliant with the 2010 model year engine requirement by January 1, 2023. CARB also adopted an ATCM to limit idling of diesel-fueled commercial vehicles on December 12, 2013. The rule requires diesel-fueled vehicles with gross vehicle weights greater than 10,000 pounds to idle no more than five minutes at any location (13 CCR 2485).

California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person must not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or that endanger the comfort, repose, health, or safety of any of those persons or the public; or that cause, or have a natural tendency to cause, injury or damage to business or property. Section 41700 also applies to sources of objectionable odors.

Heavy-Duty Vehicle Idling Emission Reduction Program

On October 20, 2005, CARB approved a regulatory measure to reduce emissions of toxics and criteria pollutants by limiting idling of new and in-use sleeper berth equipped diesel trucks.¹⁶ The regulation established new engine and in-use truck requirements and emission performance requirements for technologies used as alternatives to idling the truck's main engine. For example, the regulation requires 2008 and newer model year heavy-duty diesel engines to be equipped with a non-programmable engine shutdown system that automatically shuts down the engine after five minutes of idling, or optionally meet a stringent NO_x emission standard. The regulation also requires operators of both in-state and out-of-state registered sleeper berth equipped trucks to manually shut down their engine when idling more than five minutes at any location within California. Emission producing alternative technologies such as diesel-fueled auxiliary power systems and fuel-fired heaters are also required to meet emission performance requirements that ensure emissions are not exceeding the emissions of a truck engine operating at idle.

In-Use Off-Road Diesel Vehicle Regulation

On July 26, 2007, CARB adopted a regulation to reduce DPM and NO_x emissions from in-use (existing), off-road, heavy-duty diesel vehicles in California.¹⁷ Such vehicles are used in construction, mining, and industrial operations. The regulation is designed to reduce harmful emissions from vehicles by subjecting fleet owners to retrofit or accelerated replacement/repower requirements, imposing idling limitations on owners, operators, renters, or lessees of off-road diesel vehicles. The idling limits require operators of applicable off-road vehicles (self-propelled diesel-fueled vehicles 25 horsepower and up that were not designed to be driven on-road) to limit idling to less than five minutes. The idling requirements are specified in Title 13 of the CCR.

¹⁶ California Air Resources Board. *Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling*. October 24, 2013. Available at: <http://www.arb.ca.gov/msprog/truck-idling/truck-idling.htm>. Accessed August 2021.

¹⁷ California Air Resources Board. *In-Use Off-Road Diesel Vehicle Regulation*. December 10, 2014. Available at: <http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm>. Accessed August 2021.



State Regulations Related to GHG Emissions

The statewide GHG emissions regulatory framework is summarized below. The following text describes EOs, legislation, regulations, and other plans and policies that would directly or indirectly reduce GHG emissions and/or address climate change issues. The following discussion does not include an exhaustive list of applicable regulations; rather, only the most prominent and applicable California legislation related to GHG emissions and climate change is included below.

State Climate Change Targets

California has taken a number of actions to address climate change, including EOs, legislation, and CARB plans and requirements, which are summarized below.

EO S-3-05

EO S-3-05 (June 2005) established California's GHG emissions reduction targets and laid out responsibilities among the State agencies for implementing the EO and for reporting on progress toward the targets. The EO established the following targets:

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

EO S-3-05 also directed the California EPA to report biannually on progress made toward meeting the GHG targets and the impacts to California due to global warming, including impacts to water supply, public health, agriculture, the coastline, and forestry. The Climate Action Team was formed, which subsequently issued reports from 2006 to 2010.

AB 32

In furtherance of the goals established in EO S-3-05, the Legislature enacted AB 32 (Núñez and Pavley). The bill is referred to as the California Global Warming Solutions Act of 2006 (September 27, 2006). AB 32 provided initial direction on creating a comprehensive, multi-year program to limit California's GHG emissions at 1990 levels by 2020 and initiate the transformations required to achieve the State's long-range climate objectives. AB 32 also required that the CARB prepare a "scoping plan" for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020. The CARB's Scoping Plan is described in further detail below.

CARB's 2007 Statewide Limit on GHG Emissions

In 2007, in accordance with California Health and Safety Code Section 38550, CARB approved a statewide limit on GHG emissions by 2020, consistent with the determined 1990 baseline (427 million metric tons [MMT] CO₂e).

EO B-18-12

EO B-18-12 (April 2012) directed State agencies, departments, and other entities under the governor's executive authority to take action to reduce entity-wide GHG emissions by at least 10 percent by 2015 and 20 percent by 2020, as measured against a 2010 baseline. EO B-18-12 also established goals for existing State buildings for reducing grid-based energy purchases and water use.

EO B-30-15

EO B-30-15 (April 2015) identified an interim GHG reduction target in support of targets previously identified under EO S-3-05 and AB 32. EO B-30-15 set an interim target goal of reducing GHG



emissions to 40 percent below 1990 levels by 2030 to keep California on its trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80 percent below 1990 levels by 2050 as set forth in EO S-3-05. To facilitate achieving this goal, EO B-30-15 called for an update to the CARB's *Climate Change Scoping Plan: A Framework for Change* (Scoping Plan) to express the 2030 target in terms of MMT CO₂e. The CARB's Scoping Plan is discussed in further detail below. The EO also called for State agencies to continue to develop and implement GHG emission reduction programs in support of the reduction targets.

Senate Bill (SB) 32 and AB 197

SB 32 and AB 197 (enacted in 2016) are companion bills. SB 32 codified the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40 percent below 1990 levels by 2030. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly, to provide ongoing oversight over implementation of the State's climate policies. AB 197 also added two members of the Legislature to the Board as non-voting members; requires CARB to make available and update (at least annually via the CARB's website) emissions data for GHGs, criteria air pollutants, and TACs from reporting facilities; and requires CARB to identify specific information for GHG emissions reduction measures when updating the Scoping Plan.

CARB's Climate Change Scoping Plan

One specific requirement of AB 32 is for CARB to prepare a scoping plan for achieving the maximum technologically feasible and cost-effective GHG emission reductions by 2020 (Health and Safety Code Section 38561[a]), and to update the Scoping Plan at least once every five years. In 2008, CARB approved the first Scoping Plan. The Scoping Plan included 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. The key elements of the Scoping Plan include the following:

1. Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
2. Achieving a statewide renewable energy mix of 33 percent;
3. Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system and caps sources contributing 85 percent of California's GHG emissions;
4. Establishing targets for transportation-related GHG emissions for regions throughout California, and pursuing policies and incentives to achieve those targets;
5. Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS) (17 CCR, Section 95480 et seq.); and
6. Creating targeted fees, including a public goods charge on water use, fees on high GWP gases, and a fee to fund the administrative costs of the State's long-term commitment to AB 32 implementation.

The Scoping Plan also identified local governments as essential partners in achieving California's goals to reduce GHG emissions because they have broad influence and, in some cases, exclusive authority over activities that contribute to significant direct and indirect GHG emissions through their planning and permitting processes, local ordinances, outreach and education efforts, and municipal operations. Specifically, the Scoping Plan encouraged local governments to adopt a



reduction goal for municipal operations and for community emissions to reduce GHGs by approximately 15 percent from then levels (2008) by 2020. Many local governments developed community-scale local GHG reduction plans based on this Scoping Plan recommendation.

In 2014, CARB approved the first update to the Scoping Plan. The *First Update to the Climate Change Scoping Plan: Building on the Framework* (First Update) defined the State's GHG emission reduction priorities for the next five years and laid the groundwork to start the transition to the post-2020 goals set forth in EO S-3-05 and EO B-16-2012. The First Update concluded that California is on track to meet the 2020 target but recommended a 2030 mid-term GHG reduction target be established to ensure a continuation of action to reduce emissions. The First Update recommended a mix of technologies in key economic sectors to reduce emissions through 2050, including energy demand reduction through efficiency and activity changes; large-scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and the rapid market penetration of efficient and clean energy technologies. As part of the First Update, CARB recalculated the State's 1990 emissions level using more recent GWPs identified by the Intergovernmental Panel on Climate Change, from 427 MMT CO₂e to 431 MMT CO₂e.

In 2015, as directed by EO B-30-15, CARB began working on an update to the Scoping Plan to incorporate the 2030 target of 40 percent below 1990 levels by 2030 to keep California on a trajectory toward meeting or exceeding the long-term goal of reducing GHG emissions to 80 percent below 1990 levels by 2050, as set forth in EO S-3-05. Governor Jerry Brown called on California to pursue a new and ambitious set of strategies, in line with the five climate change pillars from his inaugural address, to reduce GHG emissions and prepare for the unavoidable impacts of climate change. In summer 2016, the Legislature affirmed the importance of addressing climate change through passage of SB 32 (Pavley, Chapter 249, Statutes of 2016).

In December 2017, the Scoping Plan was once again updated. The 2017 Scoping Plan built upon the successful framework established in the initial Scoping Plan and First Update, while identifying new, technologically feasible and cost-effective strategies that would serve as the framework to achieve the 2030 GHG target as established by SB 32 and define the State's climate change priorities to 2030 and beyond. For local governments, the 2017 Scoping Plan replaced the initial Scoping Plan's 15 percent reduction goal with a recommendation to aim for a communitywide goal of no more than six MTCO₂e per capita by 2030, and no more than two MTCO₂e per capita by 2050, which are consistent with the State's long-term goals. The 2017 Scoping Plan recognized the benefits of local government GHG planning (e.g., through Climate Action Plans [CAPs]) and provided more information regarding tools to support those efforts. The 2017 Scoping Plan also recognized the CEQA streamlining provisions for project-level review where a legally adequate CAP exists.

When discussing project-level GHG emissions reduction actions and thresholds in the context of CEQA, the 2017 Scoping Plan stated that "achieving no net additional increase in GHG emissions, resulting in no contribution to GHG impacts, is an appropriate overall objective for new development" for project-level CEQA analysis, but also recognized that such a standard may not be appropriate or feasible for every development project. The 2017 Scoping Plan further provided that "the inability of a project to mitigate its GHG emissions to net zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA."

The most recent update to the Scoping Plan, the 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan Update) was adopted by the CARB in December 2022. The 2022



Scoping Plan Update builds upon previous efforts to reduce GHG emissions and is designed to continue to shift the California economy away from dependence on fossil fuels. The 2022 Scoping Plan Update, the most comprehensive and far-reaching Scoping Plan developed to date, identifies a technologically feasible and cost-effective path to achieve carbon neutrality by 2045 while also assessing the progress California is making toward reducing its GHG emissions by at least 40 percent below 1990 levels by 2030, as called for in SB 32 and laid out in the 2017 Scoping Plan. The 2030 target is an interim but important stepping stone along the critical path to the broader goal of deep decarbonization by 2045. The relatively longer path assessed in the Scoping Plan incorporates, coordinates, and leverages many existing and ongoing efforts to reduce GHGs and air pollution, while identifying new clean technologies and energy. Given the focus on carbon neutrality, the Scoping Plan also includes discussion for the first time of the Natural and Working Lands (NWL) sectors as both sources of emissions and carbon sinks.

The 2022 Scoping Plan Update lays out a path to achieve targets for carbon neutrality and reduce GHG emissions by 85 percent below 1990 levels by 2045, as directed by AB 1279. The actions and outcomes in the plan will achieve significant reductions in fossil fuel combustion by deploying clean technologies and fuels, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands to reduce emissions and sequester carbon, and the capture and storage of carbon.

CARB's Regulations for the Mandatory Reporting of GHG Emissions

CARB's Regulation for the Mandatory Reporting of GHG Emissions (17 CCR 95100–95157) incorporated by reference certain requirements that the USEPA promulgated in its Final Rule on Mandatory Reporting of GHGs (40 Code of Federal Regulations [CFR] Part 98). Specifically, Section 95100(c) of the Mandatory Reporting Regulation incorporated those requirements that the USEPA promulgated in the Federal Register on October 30, 2009; July 12, 2010; September 22, 2010; October 28, 2010; November 30, 2010; December 17, 2010; and April 25, 2011. In general, entities subject to the Mandatory Reporting Regulation that emit more than 10,000 MTCO₂e per year are required to report annual GHGs through the California Electronic GHG Reporting Tool. Certain sectors, such as refineries and cement plants, are required to report regardless of emission levels. Entities that emit more than the 25,000 MTCO₂e per year threshold are required to have their GHG emission report verified by a CARB-accredited third party.

SB 605 and SB 1383

SB 605 (2014) required CARB to complete a comprehensive strategy to reduce emissions of SLCPs in the State, and SB 1383 (2016) required CARB to approve and implement that strategy by January 1, 2018. SB 1383 also establishes specific targets for the reduction of SLCPs (40 percent below 2013 levels by 2030 for CH₄ and HFCs, and 50 percent below 2013 levels by 2030 for anthropogenic black carbon), and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, CARB adopted its SLCP Reduction Strategy in March 2017. The SLCP Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, CH₄, and fluorinated gases.

EO B-55-18

EO B-55-18 (September 2018) establishes a statewide policy for California to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net-negative emissions thereafter. The goal is an addition to the existing statewide targets of reducing the State's GHG emissions. CARB intends to work with relevant State agencies to ensure that future scoping plan updates identify and recommend measures to achieve the carbon neutrality goal.



Mobile Sources

The following regulations relate to the control of GHG emissions from mobile sources. Mobile sources include both on-road vehicles and off-road equipment.

AB 1493

AB 1493 (Pavley) (July 2002) was enacted in response to the transportation sector accounting for more than half of California's CO₂ emissions. AB 1493 required CARB to set GHG emission standards for passenger vehicles, light-duty trucks, and other vehicles determined by the State board to be vehicles that are primarily used for non-commercial personal transportation in the State. The bill required that CARB set GHG emission standards for motor vehicles manufactured in 2009 and all subsequent model years. CARB adopted the standards in September 2004. When fully phased in, the near-term (2009–2012) standards would result in a reduction of approximately 22 percent of GHG emissions compared to the emissions from the 2002 fleet, and the mid-term (2013–2016) standards would result in a reduction of approximately 30 percent. However, as previously described within the Federal Vehicle Standards section, the USEPA's SAFE Vehicles Rule Part One, adopted in November 2019, revokes California's authority to set GHG emissions standards. As the USEPA rule is the subject of pending legal challenges and President Biden issued an EO to review Part One and Part Two, the analysis within this document uses the best available information at this time, as set forth in CARB's Emission Factor Database (EMFAC).

EO S-1-07

EO S-1-07 (January 2007, implementing regulation adopted in April 2009) set a declining LCFS for GHG emissions measured in CO₂e grams per unit of fuel energy sold in California. The target of the LCFS is to reduce the carbon intensity of California passenger vehicle fuels by at least 10 percent by 2020 (17 CCR 95480 et seq.). Carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel, including extraction/feedstock production, processing, transportation, and final consumption, per unit of energy delivered.

SB 375

SB 375 (Steinberg) (September 2008) addresses GHG emissions associated with the transportation sector through regional transportation and sustainability plans. SB 375 requires CARB to adopt regional GHG reduction targets for the automobile and light-truck sector for 2020 and 2035, and to update those targets every eight years. SB 375 requires the State's 18 regional metropolitan planning organizations to prepare a sustainable communities strategy as part of their Regional Transportation Plans that will achieve the GHG reduction targets set by CARB. If a metropolitan planning organization is unable to devise a sustainable communities strategy to achieve the GHG reduction target, the metropolitan planning organization must prepare an alternative planning strategy demonstrating how the GHG reduction target would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies.

Pursuant to California Government Code Section 65080(b)(2)(K), a sustainable communities strategy does not (1) regulate the use of land, (2) supersede the land use authority of cities and counties, or (3) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with the sustainable community strategy. Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the State-mandated housing element process.



Advanced Clean Cars Program and Zero-Emissions Vehicle Program

The Advanced Clean Cars program (January 2012) is an emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package. The package includes elements to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars. To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. By 2025, implementation of the rule is anticipated to reduce emissions of smog-forming pollution from cars by 75 percent compared to the average new car sold in 2015. To reduce GHG emissions, CARB, in conjunction with the USEPA and NHTSA, adopted GHG standards for model year 2017 to 2025 vehicles; the standards were estimated to reduce GHG emissions by 34 percent by 2025. The zero-emissions vehicle program acts as the focused technology of the Advanced Clean Cars program by requiring manufacturers to produce increasing numbers of zero-emissions vehicles and plug-in hybrid electric vehicles in the 2018 to 2025 model years. However, implementation of the Advanced Clean Cars program is contingent upon the outcome of the ongoing SAFE Vehicles Rule litigation.

EO B-16-12

EO B-16-12 (March 2012) required that State entities under the governor's direction and control support and facilitate the rapid commercialization of zero-emissions vehicles. The order directed CARB, California Energy Commission (CEC), California Public Utilities Commission (CPUC), and other relevant agencies to work with the Plug-In Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve goals by 2015, 2020, and 2025. On a statewide basis, EO B-16-12 established a target reduction of GHG emissions from the transportation sector equaling 80 percent less than 1990 levels by 2050. EO B-16-12 did not apply to vehicles that have special performance requirements necessary for the protection of the public safety and welfare.

AB 1236

AB 1236 (October 2015) (Chiu) required a city, county, or city and county to approve an application for the installation of electric-vehicle charging stations, as defined, through the issuance of specified permits unless the city or county makes specified written findings based on substantial evidence in the record that the proposed installation would have a specific, adverse impact upon the public health or safety, and a feasible method to satisfactorily mitigate or avoid the specific, adverse impact does not exist. The bill provided for appeal of that decision to the planning commission, as specified. AB 1236 required electric-vehicle charging stations to meet specified standards. The bill required a city, county, or city and county with a population of 200,000 or more residents to adopt an ordinance, by September 30, 2016, that created an expedited and streamlined permitting process for electric-vehicle charging stations. The bill also required a city, county, or city and county with a population of less than 200,000 residents to adopt the ordinance by September 30, 2017.

Water

The following regulations relate to the conservation of water, which reduces GHG emissions related to electricity demands from the treatment and transportation of water.

EO B-29-15

In response to a drought in California, EO B-29-15 (April 2015) set a goal of achieving a statewide reduction in potable urban water usage of 25 percent relative to water use in 2013. The term of the EO extended through February 28, 2016, although many of the directives subsequently



became permanent water-efficiency standards and requirements. The EO includes specific directives that set strict limits on water usage in the State. In response to EO B-29-15, the California Department of Water Resources modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency, and broadens the applicability of the ordinance to include new development projects with smaller landscape areas.

EO B-37-16

Issued in May 2016, EO B-37-16 directed the State Water Resources Control Board (SWRCB) to adjust emergency water conservation regulations through the end of January 2017 to reflect differing water supply conditions across the State. The SWRCB also developed a proposal to achieve a mandatory reduction of potable urban water usage that builds off the mandatory 25 percent reduction called for in EO B-29-15. The SWRCB and Department of Water Resources were directed to develop new, permanent water use targets that build upon the existing State law requirements that the State achieve 20 percent reduction in urban water usage by 2020. EO B-37-16 also specifies that the SWRCB permanently prohibit water-wasting practices such as hosing off sidewalks, driveways, and other hardscapes; washing automobiles with hoses not equipped with a shut-off nozzle; using non-recirculated water in a fountain or other decorative water feature; watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation; and irrigating ornamental turf on public street medians.

EO B-40-17

EO B-40-17 (April 2017) lifted the drought emergency in all California counties except Fresno, Kings, Tulare, and Tuolumne. It also rescinded EO B-29-15, but expressly stated that EO B-37-16 remains in effect and directed the SWRCB to continue development of permanent prohibitions on wasteful water use.

Solid Waste

The following regulations relate to the generation of solid waste and means to reduce GHG emissions from solid waste produced within the State.

AB 939 and AB 341

In 1989, AB 939, known as the Integrated Waste Management Act (California Public Resources Code [PRC] Sections 40000 et seq.), was passed because of the observed increase in waste stream and the decrease in landfill capacity. The statute established the California Integrated Waste Management Board, which oversees a disposal reporting system. AB 939 mandated a reduction of waste being disposed where jurisdictions were required to meet diversion goals of all solid waste through source reduction, recycling, and composting activities of 25 percent by 1995 and 50 percent by 2000.

AB 341 (Chapter 476, Statutes of 2011 [Chesbro]) amended the California Integrated Waste Management Act of 1989 to include a provision declaring that the policy goal of the State is that not less than 75 percent of solid waste generated be source-reduced, recycled, or composted by 2020, and annually thereafter. In addition, AB 341 required the California Department of Resources Recycling and Recovery to develop strategies to achieve the State's policy goal.

Other State Actions

The following State regulations are broadly related to GHG emissions.



SB 97

SB 97 (Dutton) (August 2007) directed the Governor's Office of Planning and Research to develop guidelines under CEQA for the mitigation of GHG emissions. In 2008, the Governor's Office of Planning and Research issued a technical advisory as interim guidance regarding the analysis of GHG emissions in CEQA documents. The advisory indicated that the lead agency should identify and estimate a project's GHG emissions, including those associated with vehicular traffic, energy consumption, water usage, and construction activities. The advisory further recommended that the lead agency determine the significance of the impacts and impose all mitigation measures necessary to reduce GHG emissions to a level that is less than significant. The California Natural Resource Agency (CNRA) adopted the CEQA Guidelines amendments in December 2009, and the amended CEQA Guidelines became effective in March 2010.

Under the amended CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis, or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4[a]). The CEQA Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures. The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply the lead agency's own thresholds of significance or those developed by other agencies or experts. CNRA acknowledges that a lead agency may consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions.

With respect to GHG emissions, the CEQA Guidelines state that lead agencies should "make a good faith effort, to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions (14 CCR 15064.4[a]). The CEQA Guidelines note that an agency may identify emissions by either selecting a "model or methodology" to quantify the emissions or by relying on "qualitative analysis or other performance based standards" (14 CCR 15064.4[a]). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent to which a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]).

EO S-13-08

EO S-13-08 (November 2008) is intended to hasten California's response to the impacts of global climate change, particularly sea-level rise. Therefore, the EO directs State agencies to take specified actions to assess and plan for such impacts. The final 2009 California Climate Adaptation Strategy report was issued in December 2009, and an update, *Safeguarding California: Reducing Climate Risk*, followed in July 2014. To assess the State's vulnerability, the report summarizes key climate change impacts to the State for the following areas: agriculture, biodiversity and habitat, emergency management, energy, forestry, ocean and coastal ecosystems and resources, public health, transportation, and water. Issuance of the *Safeguarding California: Implementation Action Plans* followed in March 2016. In January 2018, the CNRA



released the *Safeguarding California Plan: 2018 Update*, which communicates current and needed actions that the State government should take to build climate change resiliency.

Local Regulations

The most prominent local regulations related to air quality and GHG emissions are established by the SMAQMD and Sacramento County, as discussed in further detail below.

Sacramento Metropolitan Air Quality Management District

The SMAQMD regulates many sources of pollutants in the ambient air as well as GHG emissions, and is responsible for implementing certain programs and regulations for controlling air pollutant and GHG emissions to improve air quality in order to attain federal and State AAQS and reduce GHG emissions in compliance with State goals.

Air Quality Attainment Plan

As a part of the SVAB federal ozone nonattainment area, the SMAQMD works with the other local air districts within the Sacramento area to develop a regional air quality management plan under the FCAA requirement. The regional air quality management plan is called the SIP which describes and demonstrates how Sacramento County, as well as the Sacramento nonattainment area, would attain the required federal ozone standard by the proposed attainment deadline. In accordance with the requirements of the FCAA, the SMAQMD, along with the other air districts in the region, prepared the *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (Ozone Attainment Plan) in December 2008. The CARB determined that the Ozone Attainment Plan met federal Clean Air Act requirements and approved the Plan on March 26, 2009 as a revision to the SIP. An update to the plan, *2017 Revisions to the Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (2017 Ozone Attainment Plan), was prepared and adopted by CARB on November 16, 2017. An additional update to the plan was prepared and adopted by CARB on October 15, 2018, and known as the *2018 Updates to the California State Implementation Plan*.

The Ozone Attainment Plan, and subsequent updates, demonstrate how existing and new control strategies would provide the necessary future emission reductions to meet the FCAA requirements, including the NAAQS. It should be noted that in addition to strengthening the 8-hour ozone NAAQS, the USEPA also strengthened the secondary 8-hour ozone NAAQS, making the secondary standard identical to the primary standard. On October 26, 2015, the USEPA released a final implementation rule for the revised NAAQS for ozone to address the requirements for reasonable further progress, modeling and attainment demonstrations, and reasonably available control measures (RACM) and reasonably available control technology (RACT). The USEPA published designations for areas in attainment/unclassifiable for the 2015 ozone standards. The USEPA identified the entire Sacramento County as nonattainment for the 2015 ozone standards.¹⁸ More specifically, Sacramento County is part of the Ozone Sacramento Federal Nonattainment Area (SFNA) which includes Feather River Air Quality Management District (FRAQMD), El Dorado Air Quality Management District (EDAQMD), Yolo Solano Air Quality Management District (YSAQMD) and Placer County Air District (PCAPCD). The attainment deadline for the SFNA is July 2025.

¹⁸ U.S. Environmental Protection Agency. *Nonattainment and Unclassifiable Area Designations for the 2015 Ozone Standards*. April 30, 2018.



Sacramento County General Plan

The Sacramento County General Plan includes several goals and policies related to air quality and GHG emissions.¹⁹ The applicable policies are listed below:

Air Quality Element

- Policy AQ-1. New development shall be designed to promote pedestrian/bicycle access and circulation to encourage community residents to use alternative modes of transportation to conserve air quality and minimize direct and indirect emission of air contaminants.
- Policy AQ-2. Support Regional Transit's efforts to secure adequate funding so that transit is a viable transportation alternative. Development shall pay its fair share of the cost of transit facilities required to serve the project.
- Policy AQ-3. Buffers and/or other appropriate exposure reduction measures shall be established on a project-by project basis and incorporated during review to provide for protection of sensitive receptors from sources of air pollution or odor. The California Air Resources Board's "Strategies to Reduce Air Pollution Exposure Near High Volume Roadways" Technical Advisory and the AQMD's "Mobile Sources Air Toxics Protocol" or applicable AQMD guidance shall be utilized when establishing these exposure reduction measures.
- Policy AQ-4. Developments which meet or exceed thresholds of significance for ozone precursor pollutants, and/or Greenhouse Gases (GHG) as adopted by the Sacramento Metropolitan Air Quality Management District (SMAQMD), shall be deemed to have a significant environmental impact. An Air Quality Mitigation Plan and/or a Greenhouse Gas Reduction Plan shall be submitted to the County of Sacramento prior to project approval, subject to review and recommendation as to technical adequacy by the Sacramento Metropolitan Air Quality Management District.
- Policy AQ-4B Land uses with sensitive receptors (such as residences, schools, senior care facilities and day care centers) which are proposed within 500 feet of a freeway or other high volume roadway (defined as an urban roadway with more than 100,000 average daily trips or a rural roadway with more than 50,000 average daily trips), a railyard or an active railroad shall incorporate exposure reduction measures consistent with the guidance listed in Air Quality Element policy AQ-3.
- Policy AQ-5. Reduce emissions associated with vehicle miles travelled and evaporation by reducing the surface area dedicated to parking facilities; reduce vehicle emissions associated with "hunting" for on-street parking by implementing innovative parking innovative parking solutions including shared parking, elimination of minimum parking requirements, creation of maximum parking requirements, and utilize performance pricing for publicly owned parking spaces both on- and off-street, as well as creating parking benefit districts.
- Policy AQ-6. Provide incentives for the use of transportation alternatives, including a program for the provision of financial incentives for builders that construct

¹⁹ Sacramento County. *Sacramento County General Plan for 2005-2030*. November 9, 2011.



- ownership housing within a quarter mile of existing and proposed light rail stations.
- Policy AQ-8. Promote mixed-use development and provide for increased development intensity along existing and proposed transit corridors to reduce the length and frequency of vehicle trips.
- Policy AQ-10. Encourage vehicle trip reduction and improved air quality by requiring development projects that exceed the SMAQMD's significance thresholds for operational emissions to provide on-going, cost-effective mechanisms for transportation services that help reduce the demand for existing roadway infrastructure.
- Policy AQ-11. Encourage contractors operating in the county to procure and to operate low-emission vehicles, and to seek low emission fleet status for their off-road equipment.
- Policy AQ-12. Minimize air pollutant emissions from Sacramento County facilities and operations.
- Policy AQ-13. Use California State Air Resources Board (ARB) and SMAQMD guidelines for Sacramento County facilities and operations to comply with mandated measures to reduce emissions from fuel consumption, energy consumption, surface coating operations, and solvent usage.
- Policy AQ-14. Support SMAQMD's development of improved ambient air quality monitoring capabilities and the establishment of standards, thresholds and rules to more adequately address the air quality impacts of plans and proposals proposed by the County.
- Policy AQ-16. Prohibit the idling of on-and off-road engines when the vehicle is not moving or when the off-road equipment is not performing work for a period of time greater than five minutes in any one-hour period.
- Policy AQ-17. Promote optimal air quality benefits through energy conservation measures in new development.
- Policy AQ-19. Require all feasible reductions in emissions for the operation of construction vehicles and equipment on major land development and roadway construction projects.
- Policy AQ-20. Promote Cool Community strategies to cool the urban heat island, reduce energy use and ozone formation, and maximize air quality benefits by encouraging four main strategies including, but not limited to: plant trees, selective use of vegetation for landscaping, install cool roofing, and install cool pavements.
- Policy AQ-21. Support SMAQMD's particulate matter control measures for residential wood burning and fugitive dust.
- Policy AQ-22. Reduce greenhouse gas emissions from County operations as well as private development.



6. IMPACTS AND MITIGATION MEASURES

The standards of significance and methodology used to analyze and determine the proposed project's potential project-specific impacts related to air quality and GHG emissions are described below. In addition, a discussion of the project's impacts, as well as mitigation measures where necessary, is also presented.

Standards of Significance

Based on the recommendations of SMAQMD, and consistent with Appendix G of the CEQA Guidelines, the effects of a project are evaluated to determine if they would result in a significant adverse impact on the environment. For the purposes of this analysis, an impact is considered significant if the proposed project would:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors);
- Expose sensitive receptors to substantial pollutant concentrations (including localized CO concentrations and TAC emissions);
- Result in other emissions (such as those leading to odors) affecting a substantial number of people;
- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

Criteria Pollutant Emissions and TAC Emissions

In order to evaluate criteria air pollutant emissions from development projects, SMAQMD has established significance thresholds for emissions of NO_x, ROG, PM₁₀, and PM_{2.5}. The significance thresholds serve as air quality standards in the evaluation of air quality impacts associated with proposed development projects. Thus, if the proposed project's emissions exceed the SMAQMD thresholds, the project could have a significant effect on regional air quality and attainment of federal and State AAQS. The SMAQMD's recommended thresholds of significance are listed in Table 6. Sacramento County, as the CEQA Lead Agency for the proposed project, has formally adopted the SMAQMD's thresholds of significance. Therefore, if the proposed project's emissions exceed the pollutant thresholds presented in Table 6, the project could have a significant effect on air quality, the attainment of federal and State AAQS, and could conflict with or obstruct implementation of the applicable air quality plan.

To assess the potential impacts of TACs from stationary sources, such as GDFs, chrome plating facilities, and dry cleaners, the SMAQMD maintains thresholds of significance for the review of local community risk and hazard impacts. The thresholds are designed to assess the impact of new sources of TACs on existing sensitive receptors. Based on the SMAQMD thresholds, the proposed project would result in a significant impact related to TACs if nearby sensitive receptors would experience an increased cancer risk of greater than or equal to 10 in one million people, or experience a chronic or acute hazard index of greater than or equal to 1.0.²⁰ While SMAQMD has regulatory authority to require a health risk assessment for stationary sources of TACs, SMAQMD

²⁰ Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment in Sacramento County: Toxic Air Contaminants*. April 2020.



does not have authority to require a health risk assessment for area sources of TACs (i.e., rail yards, distribution centers, and freeways), and does not have adopted thresholds related to such. Nonetheless, if a project would introduce a new area source of TACs or would site a new sensitive receptor near an existing area source of TACs that would not meet the CARB's minimum recommended setback, as established in the CARB Handbook, a detailed health risk assessment may be warranted for disclosure purposes and to provide useful information for decision-makers.

Table 6 SMAQMD Thresholds of Significance		
Pollutant	Construction Threshold	Operational Threshold
NO _x	85 lbs/day	65 lbs/day
ROG	-	65 lbs/day
PM ₁₀	Zero (0). If all feasible BACT/BMPs are applied, then: 80 lbs/day and 14.6 tons/yr	Zero (0). If all feasible BACT/BMPs are applied, then: 80 lbs/day and 14.6 tons/yr
PM _{2.5}	Zero (0). If all feasible BACT/BMPs are applied, then: 82 lbs/day and 15 tons/yr	Zero (0). If all feasible BACT/BMPs are applied, then: 82 lbs/day and 15 tons/yr
Notes: BACT = Best Available Control Technologies; BMP = Best Management Practices. Source: SMAQMD Thresholds of Significance Table, April 2020.		

In addition, neither SMAQMD nor the County has established quantitative thresholds of significance for construction-related TAC emissions. Additionally, the SMAQMD does not have adopted thresholds of significance for cumulative health effects from multiple sources of TACs. However, for reference, the nearby Bay Area Air Quality Management District (BAAQMD) considers an impact associated with TACs to be significant if the total sources of TACs would result in a cumulative cancer risk hazard in excess of 100 cancers in a million from all local sources, or a cumulative chronic hazard index in excess of 10.0.²¹ In the absence of adopted cumulative thresholds, the SMAQMD recommends presenting the BAAQMDs thresholds for informational purposes and to provide context.²²

GHG Emissions and Other Cumulative Emissions

Nearly all development projects in the region have the potential to generate air pollutants that may increase global climate change. SMAQMD has adopted thresholds of significance for GHG emissions during construction and operations of projects. This GHG analysis has been prepared to show compliance with SMAQMD's GHG thresholds of significance.

For construction-related GHG emissions, the SMAQMD has adopted a threshold of significance of 1,100 MTCO₂e/yr. If construction of the proposed project would result in emissions that exceed 1,100 MTCO₂e/yr, then construction of the project could be considered to result in a potentially significant impact and mitigation measures would be required.

For evaluating operational GHG emissions, SMAQMD has prepared a two-tiered framework of analysis for new projects. All discretionary projects subject to CEQA review, excluding exempt projects, are required to implement Tier 1 measures (BMP 1 and 2). If operations of the proposed project would exceed 1,100 MTCO₂e/yr after implementation of the Tier 1 measures, then the

²¹ Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines*. May 2017.

²² Rachel DuBose, Air Quality Planner and Analyst, Sacramento Metropolitan Air Quality Management District. Personal Communication [phone] with Briette Shea, Associate/Air Quality Technician, Raney Planning and Management, Inc. July 27, 2021.



project is required to implement Tier 2 measures (BMP 3). The Tier 1 and Tier 2 requirements are explained in further detail below.

Tier 1

All discretionary projects subject to CEQA review within SMAQMD's jurisdiction would be required to comply with the Best Management Practices (BMPs) included in Tier 1. The proposed Tier 1 BMPs are as follows:

- **BMP 1:** No natural gas: Projects shall be designed and constructed without natural gas infrastructure.
- **BMP 2:** Electric vehicle (EV) ready: Projects shall meet the current CalGreen Tier 2 standards, except all EV Capable spaces shall instead be EV Ready.

If a project would not comply with both of the foregoing BMPs, the project would be required to include features that would achieve an equivalent level of GHG emissions reductions. Should a project opt to include natural gas infrastructure, the project would be required to include pre-wiring to allow for the future retrofit of all natural gas appliances with all-electric appliances. After implementation of BMPs 1 and 2, if a project's operational emissions would be at or below 1,100 MTCO₂e/yr, the operational emissions would be considered less than significant. Projects that would still result in emissions in excess of 1,100 MTCO₂e/yr after implementation of BMPs 1 and 2 are subject to review under Tier 2 of SMAQMD's thresholds.

Furthermore, projects that are below the Governor's Office of Planning and Research's (OPR's) *de minimis* vehicle miles travelled (VMT) criteria, and/or projects that emit less than 1,100 MTCO₂e/yr prior to implementation of BMP 1 and BMP 2 would be considered sufficiently small to screen out of further requirements, and would be assumed to result in a less-than-significant impact related to GHG emissions and climate change. The following types of projects would be considered to be below the OPR's *de minimis* VMT criteria:

- Small projects that generate or attract fewer than 110 trips per day;
- Residential and office projects in areas with low VMT (currently below threshold VMT) that incorporate similar features (i.e., density, mix of uses, transit accessibility), including affordable housing infill development; or
- Residential, retail, office, or mixed-use projects within 0.5-mile walking distance of an existing major transit stop or existing stop along a high-quality transit corridor, unless the primary use of the site is auto-oriented (e.g., car dealership, car wash, gas station).

It is noted, however, that all projects within the jurisdiction of SMAQMD are required to implement the Tier 1 measures, even if the project qualifies for screening using the OPR's *de minimis* VMT criteria.

Tier 2

The second tier of SMAQMD's thresholds includes the following BMP:

- **BMP 3:** Residential projects shall achieve a 15 percent reduction in VMT per resident, and office projects should achieve a 15 percent reduction in VMT per worker compared to existing average VMT per capita for the county, or for the city if a more local SB 743 target has been established. VMT reductions can be achieved by many strategies, such as:
 - Locate in an area that already has low VMT due to location, transit service, etc.;



- Adopt CAPCOA measures;
- Adopt measures noted in Sacramento's CAP checklist;
- Join a Transportation Management Association;
- Incorporate traffic calming measures;
- Incorporate pedestrian facilities and connections to public transportation; and/or
- Promote electric bicycle or other micro-mobility options.

The VMT evaluation conducted to assess compliance with BMP 3 shall be consistent with the County's adopted Transportation Analysis Guidelines, which sets forth methodology to conduct transportation analyses in compliance with SB 743.²³ Pursuant to the Tier 2 requirement, if a project can successfully achieve a 15 percent reduction in VMT, then impacts associated with operational GHG emissions are considered less than significant.

If a project cannot incorporate any of the foregoing BMPs, other reductions or purchasing and retiring of GHG/carbon offsets can be used as an alternative method of compliance. Given that the developer demonstrates that the alternative method(s) of compliance would achieve the same reductions as those required by BMPs 1 through 3, the project can be considered to result in a less-than-significant impact related to operational GHG emissions.

In accordance with CARB and SMAQMD recommendations, Sacramento County uses the currently adopted SMAQMD GHG thresholds of significance, as presented above. Therefore, if the proposed project would result in construction GHG emissions in excess of 1,100 MTCO₂e/yr, construction of the proposed project would be considered to result in a cumulatively considerable contribution to global climate change. In addition, if the proposed project would not achieve the SMAQMD's Tier 1 GHG requirements (BMPs 1 and 2) and, if applicable, Tier 2 GHG requirements (BMP 3), operations of the project would be considered to result in a cumulatively considerable contribution to global climate change.

With regard to other cumulative emissions, such as the cumulative emissions of criteria air pollutants, the SMAQMD directs lead agencies to use the region's existing attainment plans as a basis for analysis of cumulative emissions. If a project would interfere with an adopted attainment plan, the project would inhibit the future attainment of AAQS, and thus result in a significant incremental contribution to cumulative emissions. As discussed throughout this document, the SMAQMD's recommended thresholds of significance for ozone precursors and PM₁₀ are based on attainment plans for the region. Thus, SMAQMD concluded that if a project's ozone precursor and PM₁₀ emissions would be less than the associated thresholds, the project would not be expected to conflict with any relevant attainment plans, and would not result in a cumulatively considerable contribution to a significant cumulative impact. As a result, the operational phase cumulative-level emissions thresholds established by SMAQMD are identical to the project-level operational emissions thresholds; the operational/cumulative thresholds for criteria pollutants are presented in Table 6.

Method of Analysis

The analysis protocol and guidance provided by the SMAQMD's *CEQA Guide*, including screening criteria and pollutant thresholds of significance, was used to analyze the proposed project's air quality impacts. All modeling results are included as an appendix to this document.

²³ Sacramento County. *Transportation Analysis Guidelines*. September 10, 2020.



Construction Emissions

The proposed project would be built out over several phases across approximately 20 years in response to market-based demand for housing. As a result, the construction schedule is subject to economic fluctuations related to the housing market, and modeling construction of the entire project area in one phase would not represent a realistic analysis. Thus, in order to provide a conservative evaluation of potential impacts, this analysis evaluates Phase 1 of construction, which represents the most emissions-intensive phase of construction. Construction of the remainder of the project area would occur in subsequent phases, in response to market demand. However, it is anticipated that all other phases would be smaller in size and would result in a less intense level of construction. The approximate boundaries of Phase 1 are shown in Figure 6.

The construction emissions for Phase 1 of the proposed project were estimated using the California Emissions Estimator Model (CalEEMod) version 2020.4.0 software – a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including construction data, trip generation rates, vehicle mix, trip length, timing, inherent site or project design features, compliance with applicable average speed, compliance with the 2019 California Building Standards Code (CBSC), etc.

Where project-specific data was available, such data was input into the model (e.g., construction phases and regulations, etc.).

Accordingly, the Phase 1 construction modeling assumed the following:

- Construction would commence in June of 2023 and would occur over an approximately seven-year period;
- Approximately 122,570 cubic yards (CY) of material would be exported during site preparation;
- The timing of each phase of construction was adjusted based on applicant-provided information; and
- The amount of construction equipment was doubled to account for the size of the construction area and the construction timing.

As noted above, construction of Phase I of the proposed project would represent the most emissions-intensive phase, and construction of the remainder of the proposed project would occur in response to market demand. Thus, the construction timing of subsequent phases is speculative. Nonetheless, in order to disclose total construction emissions from the proposed project, modeling was conducted to represent buildout of the remainder of the proposed project. The modeling assumed construction of all remaining land uses, excluding those built during Phase I. The construction modeling of the remainder of the project assumed the following:

- Construction would commence in August of 2030 and would occur over an approximately 15-year period;
- The timing of each phase of construction was based on the applicant-provided timing for Phase I, and proportionally scaled to occur over the 15-year construction period; and
- The amount of construction equipment was doubled to account for the size of the construction area and the construction timing.



Note: The estimated Phase 1 Construction Area is shaded in full color and outlined in red (—)

VICINITY MAP

LAND USE SUMMARY

COLOR	LAND USE DISTRICT	TARGET DENSITY (F.U./AC)	ACRES ±	% OF ACRES	ESTIMATED DWELLING UNITS	ESTIMATED SQ. FT. ±	
VDR	VERY LOW DENSITY RESIDENTIAL	RD-1 TO RD-3	1.2 DU/AC	140.9	7.8%	141 DU	
LDR	LOW DENSITY RESIDENTIAL	RD-4 TO RD-7	5.5 DU/AC	434.5	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-8 TO RD-10	8.0 DU/AC	139.7	6.8%	1,118 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-10 TO RD-15	15.0 DU/AC	57.8	3.0%	867 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-15 TO RD-30	23.0 DU/AC	40.5	2.0%	912 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-30 TO RD-50	32.0 DU/AC	25.0	1.2%	812 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-50 TO RD-100	50.0 DU/AC	79.6	4.0%	3,980 DU	2,085,424 SF (1)
MDR	MEDIUM DENSITY RESIDENTIAL	RD-100 TO RD-150	75.0 DU/AC	50.9	2.5%	3,817 DU	2,085,424 SF (1)
MDR	MEDIUM DENSITY RESIDENTIAL	RD-150 TO RD-200	100.0 DU/AC	147.1	7.8%	147 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-200 TO RD-300	150.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-300 TO RD-400	200.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-400 TO RD-500	250.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-500 TO RD-600	300.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-600 TO RD-700	350.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-700 TO RD-800	400.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-800 TO RD-900	450.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-900 TO RD-1000	500.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1000 TO RD-1100	550.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1100 TO RD-1200	600.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1200 TO RD-1300	650.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1300 TO RD-1400	700.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1400 TO RD-1500	750.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1500 TO RD-1600	800.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1600 TO RD-1700	850.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1700 TO RD-1800	900.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1800 TO RD-1900	950.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-1900 TO RD-2000	1000.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2000 TO RD-2100	1050.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2100 TO RD-2200	1100.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2200 TO RD-2300	1150.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2300 TO RD-2400	1200.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2400 TO RD-2500	1250.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2500 TO RD-2600	1300.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2600 TO RD-2700	1350.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2700 TO RD-2800	1400.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2800 TO RD-2900	1450.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-2900 TO RD-3000	1500.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-3000 TO RD-3100	1550.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY RESIDENTIAL	RD-3100 TO RD-3200	1600.0 DU/AC	457.6	23.1%	2,391 DU	
MDR	MEDIUM DENSITY						

LAND USE SUMMARY							
COLOR	LAND USE DISTRICT	ZONE	TARGET DENSITY OF F.A.R.	ACRES ±	% OF ACRES	ESTIMATED DWELLING UNITS	ESTIMATED SQ. FT. ±
1310B	VERY LOW DENSITY RESIDENTIAL	RD-1 TO RD-9	1.5 DU/AC	180.9	7.8%	181 DU	
1310C	LOW DENSITY RESIDENTIAL	RD-1 TO RD-9	3.5 DU/AC	434.2	20.1%	2,399 DU	
1310D	MEDIUM DENSITY RESIDENTIAL	RD-10 TO RD-15	8.5 DU/AC	199.7	8.8%	1,718 DU	
1310E	MEDIUM DENSITY RESIDENTIAL	RD-16 TO RD-19.5	12.5 DU/AC	158.8	7.5%	493 DU	
1310F	HIGH DENSITY RESIDENTIAL	RD-15 TO RD-19.5	22.5 DU/AC	45.5	2.0%	912 DU	
1310G	VERY HIGH DENSITY RESIDENTIAL	RD-19.5 TO RD-19.5	38.5 DU/AC	25.0	1.2%	819 DU	
1310H	COMMERCIAL MIXED USE	CM-1	1,500 F.A.R./AC	3.35	0.2%	3,358 DU	2,000,05 SQ. FT.
1310I	SUPPLEMENTARY COMMERCIAL	SMC	9,499 F.A.R.	50.9	2.3%		887,884 SQ. FT.
1310J	SCHOOL	CC, HS, K-8		147.1	7.1%		
1310K	OUTDOOR RECREATION	NR		47.8	2.5%		
1310L	ADULT RECREATION	AR		457.6	19.7%		
1310M	ADULT RECREATION	AR		62.9	3.1%		
1310N	URBAN PARKS/ GREEN BELT	AG-B		24.1	1.6%		
1310O	PARK	P		71.2	3.2%		
1310P	WATER BASIN(S)/WALL	FW		92.8	4.2%		
1310Q	LANDSCAPE CORRIDOR	C		25.7	1.2%		
1310R	MAJOR ROADS	BOW		131.4	6.4%		
TOTAL				2046.3 AC	100%		2,948,110 SQ. FT.

NOTES

- 1) NET ACREAGE BASED ON PRELIMINARY LAND PLAN GENERATED IN GIS/ARC/CAD BY WOOD RODRIGOS APRIL 2020. THIS PLAN IS SUBJECT TO CHANGE. ARTIFICAL AND COLLECTOR ROADS, AND LANDSCAPE CORRIDORS AS SHOWN ON PLAN ARE NETTED OUT.
- 2) PERMANENT POPULATION CALCULATION LITERATURE 2.8 PERSONS/PGH/HOUSEHOLD (pgph) FOR SINGLE-FAMILY AND 3.4 pgph FOR MULTIFAMILY PER AND HIGH-RISE. THIS IS A PRELIMINARY ESTIMATE AND SUBJECT TO CHANGE.
- 3) THE ALLOCATED SQUARE FOOTAGE (SF) IS IN ADDITION TO EXISTING COMMERCIAL LAND USES.
- 4) AGRICULTURE, RESIDENTIAL (LOW AND MEDIUM DENSITY), CROPS, PASTURE AND LAKE AREAS ARE NOT INCLUDED IN PROPOSED 1,023-ACRE DEVELOPMENT AREA OR THE UPA/UPA EXPANSION REQUEST. IT IS ASSUMED THE "BUFF ZONE" AREA WILL REMAIN AS IS AND NO UNITS ARE ALLOCATED.
- 5) THE 1.2 AC ACRE SITE LOCATED SOUTHWEST OF THE TOWN CENTER IS INTENDED FOR A SPECIAL USE (e.g. FIRE STATION, SHELTER SUB-STATION, CHURCH, DAY CARE, ETC.) AND THEREFORE WAS NOT ALLOCATED FOR RESIDENTIAL UNITS.

Operational Emissions

The project site is currently developed with existing land uses including, but not limited to, the following: approximately 20 single-family residences; an approximately 40,000-sf general office building; an approximately 70,000-sf warehouse building; a 12-hole golf course; a 145-room hotel; and more. These existing land uses emit criteria pollutants during operations, and such emissions would cease upon buildout of the proposed project. In order to accurately represent the net change in criteria pollutants emissions associated with the proposed project, emissions were calculated for an estimated operations year of 2045 under both A) existing conditions and B) the proposed project.

- A) The existing conditions operational emissions were estimated using CalEEMod version 2020.4.0 software. All existing land uses and vehicle trip generation rates were entered consistent with the project-specific Trip Generation Memorandum prepared by Fehr and Peers.²⁴
- B) The proposed project's operational emissions were also estimated using CalEEMod version 2020.4.0 software. All proposed land uses and associated vehicle trip generation rates were entered consistent with the project-specific Trip Generation Memorandum prepared by Fehr and Peers. The modeling also assumed compliance with the 2019 CalGreen Code and the adopted Model Water Efficiency Landscape Ordinance (MWELo).

Construction Health Risk Assessment

Sensitive receptors do not currently exist in the immediate vicinity of the Phase 1 area. However, as buildout of each phase occurs, receptors would be located on the project site, and construction activities would have the potential to occur adjacent to sensitive receptors (existing and future), including residences and/or schools. In order to model the worst-case scenario, the construction emissions modeling associated with construction of Phase 1 assumed sensitive receptors along the perimeter of the Phase 1 construction area. In addition, an additional receptor was placed in the center of the Phase 1 construction area to represent receptors that would be exposed to emissions associated with subsequent phases of the proposed project in combination with the Phase 1 construction. The combination of the two receptor locations represents the maximum possible exposure to any one receptor through the course of the 30-year development associated with the proposed project. While these receptor locations are hypothetical for modeling purposes, the conditions represent the most emissions-intensive phase of construction occurring adjacent to sensitive receptors. In reality, because subsequent construction phases of the project would likely be less intense than Phase 1, construction which would occur adjacent to receptors would be less intense than what is evaluated herein.

To analyze potential health risks to nearby receptors that could result from DPM emissions from off-road equipment at the project site, total DPM emissions from construction of Phase 1 of the proposed project were estimated. DPM is considered a subset of PM_{2.5}, thus, the CalEEMod estimated PM_{2.5} emissions from exhaust during construction was conservatively assumed to represent all DPM emitted on-site. The CalEEMod estimated PM_{2.5} exhaust emissions were then used to calculate the concentration of DPM at the maximally exposed sensitive receptor near the project site.

²⁴ Fehr and Peers. *Draft Technical Memorandum #2, Upper Westside Specific Plan – Project Trip Generation*. December 8, 2020.



DPM concentrations resulting from project implementation were estimated using the American Meteorological Society/Environmental Protection Agency (AMS/EPA) Regulatory Model (AERMOD). The associated cancer risk and non-cancer hazard index were calculated using the CARB's Hotspot Analysis Reporting Program Version 2 (HARP 2) Risk Assessment Standalone Tool (RAST), which calculates the cancer and non-cancer health impacts using the risk assessment guidelines of the 2015 Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for Preparation of Health Risk Assessments.²⁵ The modeling was performed in accordance with the USEPA's User's Guide for the AERMOD²⁶ and the 2015 OEHHA Guidance Manual.

Although pollutant concentrations at all nearby receptors were estimated, for the purpose of determining potential health risks, only the highest estimated pollutant concentrations were used in calculating cancer risk and hazard indices. The receptor experiencing the highest estimated pollutant concentrations was considered to be the maximally exposed receptor, and would experience the highest potential health risks. Health risks to all other receptors would be lower than the health risks to the maximally exposed receptor, because all other receptors would be exposed to lower concentrations of construction-related pollutants as compared to the maximally exposed receptor.

Additionally, considering that both schools and residences exist in proximity to the area of disturbance, the estimation of health risks conservatively assumed that nearby receptors would be continuously exposed to pollutants from construction at the maximum estimated concentrations. This assumption would represent a scenario whereby a resident living nearby also attends one of the nearby schools and is therefore exposed to pollutants both at home and at school. In practice, concentrations of pollutants at nearby schools would be much less than the concentration of pollutants at the maximally exposed receptor location. Due to the difference in pollutant concentrations at the maximally exposed receptor location and nearby schools, a single receptor would not be anticipated to be continuously exposed to the maximum level of pollutant concentrations both at home and at school. Nevertheless, by using the maximum estimated concentrations and assuming continuous exposure to pollutants, the estimated health risks presented below are considered a worst-case estimate of potential health risks, and actual health risks to receptors in the project area would be lower than the levels presented within this analysis.

Operational Health Risk Assessment

Impacts of the environment on a project (as opposed to impacts of a project on the environment) are beyond the scope of required CEQA review. While not a CEQA consideration, this issue is hereby addressed given that the proposed project would involve locating sensitive receptors near existing sources of TACs, including two GDFs and I-80.

Figure 7 presents the modeled sources of TACs in yellow, as well as an overlay of the proposed site plan to demonstrate where future sensitive receptors would be located. The methods used to calculate the TAC emissions associated with each source are described below.

²⁵ Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments* [pg. 8-18]. February 2015.

²⁶ U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.



Figure 7
Operational Health Risk Assessment: Sources of TACs



Estimating TAC Emissions Associated with GDFs

The maximum permitted gasoline throughput for each GDF was obtained through the SMAQMD's Public Information Request Form.²⁷

Following the guidance within the SMAQMD's *Guide to Air Quality Assessment in Sacramento County*,²⁸ as well as guidance from the Toxics Committee of the California Air Pollution Control Officers Association (CAPCOA),²⁹ the concentrations of pollutants from operation of the existing GDFs were calculated using AERMOD. The associated cancer risk and non-cancer hazard indices were calculated using the CARB's HARP 2 RAST. For the purpose of this analysis, the primary TAC of concern is benzene. As such, potential health risks related to the exposure of receptors to benzene were considered.

Like the construction health risk assessment, only the highest estimated pollutant concentrations at the maximally exposed receptors were used in calculating cancer risk and hazard indices. Health risks to all other receptors would be lower than the health risks to the maximally exposed receptor, because all other receptors would be exposed to lower concentrations of GDF-related pollutants as compared to the maximally exposed receptor. Additionally, the estimation of health risks conservatively assumed that nearby receptors would be continuously exposed to pollutants from the GDF at the maximum estimated concentrations. This assumption would represent a scenario whereby a resident living nearby also attends one of the nearby schools and is therefore exposed to pollutants both at home and at school and, thereby, offers the most conservative approach to analysis.

Estimating TAC Emissions Associated with I-80

Based on the SMAQMD's Mobile Sources Air Toxics Protocol Tool, the estimated cancer risk per million persons and the concentration of PM_{2.5} from operation of I-80 were estimated at the nearest sensitive receptors.³⁰ The concentration of PM_{2.5} was applied in the HARP 2 RAST software, over an assumed 30-year exposure period, in order to estimate the chronic hazard index at the receptors near I-80.

The SMAQMD's Mobile Sources Air Toxics Protocol Tool uses car and truck emission factors from the CARB's Emission FACTor (EMFAC) database for vehicles within Sacramento County, and assumes future emission reductions due to technological advancements. The SMAQMD does not recommend any particular thresholds for use with the Mobile Sources Air Toxics Protocol Tool.

Although a specific threshold does not exist, due to the proposed proximity of sensitive receptors and I-80, the proposed project will be required to comply with the SMAQMD's Landscaping Guidance for Improving Air Quality Near Roadways as a condition of project approval.³¹

²⁷ Muller, Virginia. Legal Assistant II/Clerk of the Hearing Board, Sacramento Metropolitan Air Quality Management District. Personal communication [email] with Briette Shea, Associate/Air Quality Technician, Raney Planning and Management, Inc. July 15, 2021.

²⁸ Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment in Sacramento County: Toxic Air Contaminants*. April 2020.

²⁹ California Air Pollution Control Officers Association. *CAPCOA Air Toxics "Hot Spots" Program: Gasoline Service Station Industrywide Risk Assessment Guidelines*. November 1997.

³⁰ Sacramento Metropolitan Air Quality Management District. *Mobile Sources Air Toxics Protocol Tool*. Available at: <http://sacramentorisk.azurewebsites.net/>. Accessed July 2021.

³¹ Sacramento Metropolitan Air Quality Management District. *Landscaping Guidance for Improving Air Quality Near Roadways: Plant Species and Best Practices for the Sacramento Region, Version 2.0*. May 2020.



Project-Specific Impacts and Mitigation Measures

The following discussion of impacts is based on implementation of the proposed project in comparison with the standards of significance identified above.

AQ-1 Conflict with or obstruct implementation of the applicable air quality plan. Based on the analysis below, the impact is *significant and unavoidable*.

The project's estimated emissions associated with construction and operations are presented and discussed in further detail below.

Construction Emissions

During construction of the project, various types of equipment and vehicles would temporarily operate on the project site. Construction exhaust emissions would be generated from construction equipment, vegetation clearing and earth movement activities, construction worker commutes, and construction material hauling for the entire construction period. The aforementioned activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants. Project construction activities also represent sources of fugitive dust, which includes PM emissions. As construction of the proposed project would generate air pollutant emissions intermittently within the site and vicinity, until all construction has been completed, construction is a potential concern because the proposed project is in a non-attainment area for ozone, PM₁₀, and PM_{2.5}.

It is noted that the project is required to comply with all SMAQMD rules and regulations for construction, which would be noted on County-approved construction plans and ensured as a condition of approval for the proposed project. The applicable rules and regulations would include, but would not be limited to, the following:

- Rule 403 related to Fugitive Dust;
- Rule 404 Related to Particulate Matter;
- Rule 407 related to Open Burning;
- Rule 442 related to Architectural Coatings;
- Rule 453 related to Cutback and Emulsified Asphalt Paving Materials; and
- Rule 460 related to Adhesives and Sealants.

To apply the PM₁₀ and PM_{2.5} thresholds presented in Table 6, projects must implement all feasible SMAQMD BACTs and BMPs related to dust control. In the case of construction activities, projects are required to implement the SMAQMD's identified Basic Construction Emissions Control Practices (BCECPs), which are considered by the SMAQMD to be the applicable construction BMPs. The control of fugitive dust during construction is required by SMAQMD Rule 403, and enforced by SMAQMD staff. The BCECPs for dust control include the following:

- Water all exposed surfaces two times daily. Exposed surfaces include, but are not limited to soil piles, graded areas, unpaved parking areas, staging areas, and access roads;



- Cover or maintain at least two feet of free board space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered;
- Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited;
- Limit vehicle speeds on unpaved roads to 15 miles per hour (mph);
- All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used;
- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes [California Code of Regulations, Title 13, sections 2449(d)(3) and 2485]. Provide clear signage that posts this requirement for workers at the entrances to the site;³²
- Provide current certificate(s) of compliance for CARB's In-Use Off-Road Diesel-Fueled Fleets Regulation [California Code of Regulations, Title 13, sections 2449 and 2449.1]. For more information contact CARB at 877-593-6677, doors@arb.ca.gov, or www.arb.ca.gov/doors/compliance_cert1.html.³³ and
- Maintain all construction equipment in proper working condition according to manufacturer's specifications. The equipment must be checked by a certified mechanic and determine to be running in proper condition before it is operated.

Compliance with the foregoing measures is required per Rule 403, and compliance with all applicable SMAQMD rules, including Rule 403, is required as a County condition of approval. Thus, project construction would comply with the foregoing measures. Consequently, the project PM emissions are assessed in comparison to the thresholds presented in Table 6.

Table 7 presents the estimated construction-related emissions of ROG, NO_x, PM₁₀, and PM_{2.5} associated with Phase 1 buildout of the proposed project in comparison with the SMAQMD thresholds of significance. It is noted that, as presented in Table 6, SMAQMD does not have an adopted threshold of significance for construction-related ROG emissions; thus, ROG emissions have been included in Table 7 for informational purposes only.

Table 7 Maximum Unmitigated Construction Emissions – Phase 1			
Pollutant	Project Emissions	Construction Threshold	Exceeds Threshold?
ROG	53.03 lbs/day	-	N/A
NO _x	316.34 lbs/day	85 lbs/day	YES
PM ₁₀	40.52 lbs/day; 4.21 tons/yr	80 lbs/day; 14.6 tons/yr	NO
PM _{2.5}	22.43 lbs/day; 1.27 tons/yr	82 lbs/day; 15 tons/yr	NO
Source: CalEEMod, April 2023 (see Appendix A).			

³² This BMP for dust control specifically applies to diesel-powered equipment. Non-diesel vehicles are not required to limit idling time.

³³ This BMP for dust control specifically applies to diesel-powered equipment.



As shown in the table, the maximum unmitigated construction-related emissions for the most intense phase of construction (i.e., Phase 1) would be below the applicable thresholds of significance for PM₁₀ and PM_{2.5}. However, emissions of NO_x would exceed the applicable SMAQMD threshold of significance. Therefore, Mitigation Measure AQ-1, which would require the use of construction equipment with Tier 4 engines, would be required to ensure that emissions of NO_x are below the SMAQMD threshold during construction of the proposed project.

Construction Emissions – Informational Discussion

As noted above, construction of Phase I of the proposed project would represent the most emissions-intensive phase and, therefore, the conclusion presented above would be applicable to the entire project. In addition, as construction of the remainder of the proposed project would occur in response to market demand, the construction timing of subsequent phases is speculative. Nonetheless, in order to disclose total construction emissions from the proposed project, modeling was conducted to represent buildout of the remainder of the proposed project. The modeling assumed construction of all remaining land uses over approximately 15 years, for an operational year of 2045. The results of the modeling are presented below in Table 8, below.

Table 8 Maximum Unmitigated Construction Emissions – Remainder of Project			
Pollutant	Project Emissions	Construction Threshold	Exceeds Threshold?
ROG	54.90 lbs/day	-	N/A
NO _x	103.53 lbs/day	85 lbs/day	YES
PM ₁₀	47.39 lbs/day; 6.00 tons/yr	80 lbs/day; 14.6 tons/yr	NO
PM _{2.5}	13.22 lbs/day; 1.68 tons/yr	82 lbs/day; 15 tons/yr	NO
<i>Source: CalEEMod, April 2023 (see Appendix A).</i>			

As shown in Table 8, buildout of the remainder of the proposed project is anticipated to be below the applicable thresholds of significance for PM₁₀ and PM_{2.5}. However, similar to Phase 1 buildout of the proposed project, emissions of NO_x would exceed the applicable SMAQMD threshold of significance during buildout of the remainder of the proposed project. Therefore, Mitigation Measure AQ-1 would be required during all phases of the phases of project buildout to ensure that emissions of NO_x are below the SMAQMD threshold during construction of the proposed project.

Operational Emissions

Operational emissions of ROG, NO_x, and PM would be generated by the proposed project from both mobile and stationary sources. Day-to-day activities, such as the future resident's and employees' vehicle trips to and from the project site, would make up the majority of the mobile emissions. Emissions would also occur from area sources, including natural gas combustion from heating mechanisms, landscape maintenance equipment exhaust, and consumer products (e.g., deodorants, cleaning products, spray paint, etc.).



As discussed above, due to the nonattainment designations of the area, the SMAQMD has developed plans to attain the State and federal standards for ozone and particulate matter. The current applicable air quality plan for the proposed project area is the *Sacramento Regional 2009 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (Ozone Attainment Plan), updated July 24, 2017. The Ozone Attainment Plan demonstrates how existing and new control strategies would provide the necessary future emission reductions to meet the CAA requirements, including the federal AAQS. Adopted SMAQMD rules and regulations, as well as the thresholds of significance, have been developed with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated nonattainment, consistent with the applicable air quality plan. Thus, if a project's operational emissions exceed the SMAQMD's mass emission thresholds, a project would be considered to conflict with or obstruct implementation of the SMAQMD's air quality planning efforts.

The estimated net new operational emissions associated with proposed project are presented in Table 9. It should be noted that the project would not involve installation or operation of any pieces of equipment that would require implementation of SMAQMD's BACTs; therefore, the project would be subject to SMAQMD's mass emissions thresholds for PM₁₀ and PM_{2.5}.³⁴ As demonstrated in Table 9, the project's net new unmitigated operational emissions would exceed the applicable thresholds of significance for all criteria pollutants. Therefore, operations associated with development of the proposed project could substantially contribute to the SVAB's non-attainment status for ozone, PM₁₀, or PM_{2.5}.

Table 9 Unmitigated Maximum Operational Criteria Pollutant Emissions						
Scenario	ROG	NO_x	PM₁₀		PM_{2.5}	
	lbs/day	lbs/day	lbs/day	tons/yr	lbs/day	tons/yr
A) Existing Conditions	21.21	10.66	10.42	1.83	3.00	0.53
B) Proposed Project	632.06	252.57	443.82	77.83	126.18	22.06
<i>Net Change in Emissions</i>	<i>610.85</i>	<i>241.91</i>	<i>433.40</i>	<i>76.00</i>	<i>123.18</i>	<i>21.53</i>
Threshold of Significance	65	65	80	14.6	82	15
Exceeds Threshold?	YES	YES	YES	YES	YES	YES
<i>Source: CalEEMod, July 2021; and CalEEMod, March 2022 (see Appendix A).</i>						

Conclusion

Construction activities associated with the proposed project would be required to comply with all SMAQMD BCECPs, and would therefore adhere to local air quality

³⁴ Although not anticipated, should the proposed project include land uses or pieces of equipment that would require implementation of SMAQMD's BACTs (i.e., boiler, crematory, automotive spray painting, dry cleaning, pharmaceutical manufacturing, etc.), each stationary source would require an operational permit issued by SMAQMD. As part of the permitting process, compliance with the identified BACTs would be required. Thus, the thresholds of significance for PM emissions remain applicable.



plans. However, NO_x emissions resulting from construction activity are anticipated to exceed SMAQMD's applicable threshold of significance. In addition, during operations, the proposed project is anticipated to result in criteria pollutant emissions which exceed the SMAQMD's thresholds of significance. The proposed project could also result in a cumulatively considerable net increase of a criteria air pollutant for which the project region is non-attainment under an applicable AAQS. Therefore, a **significant** impact could result.

Mitigation Measure(s)

The primary source of project-related construction NO_x emissions would be associated with off-road construction equipment used during construction of the proposed project. Implementation of Mitigation Measure AQ-1, which requires the use of higher-tier off-road equipment, would reduce the emissions of NO_x to below the applicable SMAQMD threshold of significance, as presented in Table 10. It should be noted that while the emissions presented in Table 10 are only representative of Phase I of the project, given that construction of Phase I of the proposed project would represent the most emissions-intensive phase, Mitigation Measure AQ-1 would result in emissions of NO_x to below the applicable SMAQMD threshold of significance during the remaining phases of construction as well. Therefore, implementation of the following mitigation measure would reduce the above potential impact related to construction emissions to a less-than-significant level.

Table 10 Maximum Mitigated Construction Emissions – Phase 1			
Pollutant	Project Emissions	Construction Threshold	Exceeds Threshold?
ROG	50.44 lbs/day	-	N/A
NO _x	68.39 lbs/day	85 lbs/day	NO
PM ₁₀	38.11 lbs/day; 4.07 tons/yr	80 lbs/day; 14.6 tons/yr	NO
PM _{2.5}	20.23 lbs/day; 1.13 tons/yr	82 lbs/day; 15 tons/yr	NO
Source: CalEEMod, April 2023 (see Appendix A).			

For land development projects that are anticipated to exceed the SMAQMD's operational emissions thresholds of significance for criteria pollutants, such as the proposed project, SMAQMD requires that the project proponent develop an Air Quality Mitigation Plan (AQMP) describing what features the project will incorporate to reduce operational criteria pollutant emissions from baseline conditions. SMAQMD guidance provides that the creation and implementation of an AQMP represents all feasible mitigation, provided that the AQMP demonstrates a 15 percent reduction of ozone precursors below baseline emissions for projects considered in the State Implementation Plan (SIP) and 35 percent for projects not considered in the SIP. As the proposed project was not anticipated by the County in its current General Plan (adopted in 2011) or other community plan, development of the project is not included in the growth assumptions of the SIP. As such, a reduction of 35 percent below baseline emissions of ozone precursors is required for the proposed project. According to SMAQMD, a project's ozone precursor emissions reductions goals should be based on mobile emissions only. Mitigation Measure AQ-2 requires preparation and implementation of a project-specific AQMP. The maximum operational criteria pollutant emissions, with implementation of Mitigation Measure AQ-2, is presented in



Table 11. Implementation of the following measure, Mitigation Measure AQ-2, represents all feasible mitigation. However, as demonstrated in Table 11, emission levels would still exceed the applicable threshold of significance and, therefore, the impact would remain *significant and unavoidable*.

Table 11 Mitigated Maximum Operational Criteria Pollutant Emissions						
Scenario	ROG	NO _x	PM ₁₀		PM _{2.5}	
	lbs/day	lbs/day	lbs/day	tons/yr	lbs/day	tons/yr
A) Existing Conditions	21.21	10.66	10.42	1.83	3.00	0.53
B) Proposed Project with AQ-1	625.05*	210.53*	427.52	74.97	121.81	21.29
<i>Net Change in Emissions</i>	<i>603.84</i>	<i>199.87</i>	<i>417.10</i>	<i>73.14</i>	<i>118.81</i>	<i>20.76</i>
Threshold of Significance	65	65	80	14.6	82	15
Exceeds Threshold?	YES	YES	YES	YES	YES	YES
Note: ROG and NO _x emissions followed by an (*) have been adjusted using off-model calculations to account for the prohibition of natural gas in residential land uses. Refer to the Air Quality Management Plan (see Appendix E) for further detail regarding the off-model calculation methodology.						
Source: CalEEMod, July 2021; and CalEEMod, March 2022 (see Appendix A).						

AQ-1. *Prior to the initiation of ground disturbance, the project applicant shall ensure that all heavy-duty off-road diesel-powered equipment to be used in the construction of the project (including owned, leased, and subcontractor equipment) shall be CARB Tier 4 Final or cleaner.*

In addition, all off-road equipment working at the construction site must be maintained in proper working condition according to manufacturer's specifications. Idling shall be limited to five minutes or less in accordance with the Off-Road Diesel Fueled Fleet Regulation as required by CARB. Portable equipment over 50 horsepower must have either a valid District Permit to Operate (PTO) or a valid statewide Portable Equipment Registration Program (PERP) placard and sticker issued by CARB.

The aforementioned requirements shall be noted on improvement plans and submitted for review and approval by Sacramento County.

AQ-2. *Prior to the approval of project improvement plans, the project applicant shall comply with the provisions of the Air Quality Management Plan prepared for the proposed project, dated March 2022 (see Appendix E), and incorporate all requirements into the Upper Westside Specific Plan conditions of approval. The measures included in the AQMP include the following:*



1. Natural gas use shall be prohibited in all residential land uses (see Mitigation Measure GHG-3 below); and
2. The project shall implement a Transportation Management Association (TMA), such as Jibe North Natomas (for more information, visit <https://jibe.org/>). The TMA must comply with the following criteria, and is subject to approval by Sacramento County and SMAQMD:
 - a. The TMA must be legally constituted as a non-profit organization, Property/Business Improvement District (PBID), or a government entity with a non-revocable funding mechanism, such as a community finance district, dedicated to TMA operations and services; and
 - b. The TMA must provide a minimum level of TDM services to employees and residents within the area covered by the AQMP sufficient to achieve the emission reductions claimed by the measure. Services must be enumerated and funded to the satisfaction of the lead agency and SMAQMD.

The project applicant, in coordination with the SMAQMD, shall work with future developers to ensure proper implementation of the measures included in the Air Quality Management Plan, as well as any future replacement mitigation measures. Examples of replacement mitigation measures include the following:

- **Super-Compliant VOC Architectural Coatings during Operation.** Project sponsors shall include in all building rules and/or building operation plans (as applicable, depending on the parcel) a requirement that all future interior and exterior spaces be repainted only with “super-compliant” VOC (i.e., ROG) architectural coatings beyond Sacramento Metropolitan Air Quality Management District (air district) requirements (i.e., Rule 442: Architectural Coatings). “Super-compliant” coatings refer to paints that meet the more stringent regulatory limits in South Coast Air Quality Management District rule 1113, which requires a standard of 10 grams VOC per liter or less (<http://www.aqmd.gov/home/regulations/compliance/architectural-coatings/super-compliant-coatings>). Project sponsors shall be required to submit documentation to the County demonstrating compliance with this measure.
- **Best Available Emissions Controls for Stationary Emergency Generators.** To reduce emissions of ROG and toxic air contaminants (TACs) associated with operation of future projects, project applicants shall implement the following measures. These features shall be submitted to the County for review and approval, and shall be included on the project drawings submitted for the construction-related permit(s) or on other documentation submitted to the County prior to the issuance of any building permits:



- *Permanent stationary emergency generators installed on-site shall have engines that meet or exceed California Air Resources Board Tier 4 Off-Road Compression Ignition Engine Standards (California Code of Regulations Title 13, Section 2423). If the California Air Resources Board adopts future emissions standards that exceed the Tier 4 requirement, the emissions standards resulting in the lowest ROG and DPM emissions shall apply.*
- *As non-diesel-fueled emergency generator technology becomes readily available and cost effective in the future, and subject to the review and approval of the County fire department for safety purposes, non-diesel-fueled generators shall be installed in new buildings, provided that alternative fuels used in generators, such as biodiesel, renewable diesel, natural gas, or other biofuels or other non-diesel emergency power systems, are demonstrated to reduce ROG and DPM emissions compared to diesel fuel.*
- *For each new diesel backup generator permit submitted to air district, project applicants shall submit the anticipated location and engine specifications to the planning department for review and approval prior to issuance of a permit for the generator. Once operational, all diesel backup generators shall be maintained in good working order for the life of the equipment, and any future replacement of the diesel backup generators must be consistent with these emissions specifications. The operator of the facility at which the generator is located shall maintain records of the testing schedule for each diesel backup generator for the life of that diesel backup generator and shall provide this information for review to the planning department within three months of requesting such information.*
- **Promote Use of Green Consumer Products.** *To reduce ROG emissions associated with future projects, project sponsors shall provide education for residential and commercial tenants concerning green consumer products. Prior to receipt of any certificate of occupancy, project sponsors shall develop electronic correspondence to be distributed by email annually and upon any new lease signing to residential and/or commercial tenants of each building on the project site that encourages the purchase of consumer products that generate lower than typical VOC emissions. The correspondence shall encourage environmentally preferable purchasing.*



- **Operational Truck Emissions Reduction.** Project sponsors shall incorporate the following measures into the project design and construction contracts (as applicable) to reduce ROG emissions associated with operational trucks, along with the potential health risk caused by exposure to TACs. These features shall be submitted to the planning department for review and approval prior to the issuance of building permits and shall be included on the project drawings submitted for the construction-related permit or on other documentation submitted to the County. Emissions from project-related diesel trucks shall be reduced by implementing the following measures, if feasible:
 - Equip all truck delivery bays with electrical hook-ups for diesel trucks at loading docks to accommodate plug-in electric truck transport refrigeration units (TRUs) or auxiliary power units during project operations.
 - Provide a notice on the lease to all new tenants or owners of the project or any portion thereof requiring any truck-intensive uses on the site, such as large grocery stores or distribution facilities with their own fleet of trucks, to use TRUs and auxiliary power units that are electric plug-in capable and trucks that use advanced exhaust technology (e.g., hybrid) or alternative fuels.
 - Encourage the use of trucks equipped with diesel TRUs to meet U.S. Environmental Protection Agency Tier 4 emission standards.
 - Prohibit TRUs from operating at loading docks for more than thirty minutes, and post signs at each loading dock presenting this TRU limit.
 - Prohibit trucks from idling for more than two minutes, and post “no idling” signs at the site entry point, at all loading locations, and throughout the project site.
- **Electric Vehicle Charging Infrastructure.** Prior to the issuance of a certificate of occupancy for any project structure with parking, the project applicant shall demonstrate compliance with the California Green Building Standards (CALGreen Code) Tier 2 voluntary electric vehicle (EV) charging requirements current at that time or the mandatory requirements of the most recently adopted version of the County building code, whichever is more stringent. The installation of all EV charging equipment shall be included on project drawings submitted for construction-related permit(s) or on other documentation submitted to the County.
- **Electric Landscaping Equipment.** To reduce ROG emissions all projects shall use only electric landscaping equipment. No landscaping equipment powered by gasoline, diesel, propane, or other fossil fuels shall be used.



This requirement shall be incorporated into the project design and tenant contracts (as applicable).

AQ-2 Expose sensitive receptors to substantial pollutant concentrations. Based on the analysis below, the impact is significant and unavoidable.

As noted previously, the nearest sensitive receptors to the project site include adjacent residential subdivisions and several public schools. The closest residences are approximately 50 feet away from the project site.

The major pollutant concentrations of concern are localized CO emissions, TAC emissions, and criteria pollutant emissions, which are addressed in further detail below.

Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Per the SMAQMD Guide, emissions of CO are generally of less concern than other criteria pollutants, as operational activities are not likely to generate substantial quantities of CO, and the SVAB has been in attainment for CO for multiple years.³⁵ Consequently, the proposed project is not anticipated to result in significant impacts to air quality related to localized CO emissions.

TAC Emissions

Another category of environmental concern is TACs. The CARB Handbook provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, rail yards, and GDFs. Health risks associated with TACs are a function of both the concentration of emissions and the duration of exposure, where the higher the concentration and/or the longer the period of time that a sensitive receptor is exposed to pollutant concentrations would correlate to a higher health risk.

As noted previously, SMAQMD has permitting authority over stationary sources of TACs, but does not have authority to regulate area sources of TACs. Thus, any future land uses that may be considered a stationary source of TACs would be required to acquire the appropriate permits from the SMAQMD prior to operations. To assess the potential impacts of TACs from stationary sources, the SMAQMD maintains thresholds of significance for the review of local community risk and hazard impacts. The thresholds are designed to assess the impact of new stationary sources of TACs on existing sensitive receptors. Based on the SMAQMD thresholds, the proposed project would result in a significant impact related to stationary sources of TACs if nearby sensitive receptors would experience an increased cancer risk of greater than or equal to 10 in one million people, or experience a chronic or acute hazard index of greater than or equal to 1.0.³⁶

³⁵ Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment, Chapter 4: Operational Criteria Air Pollutant and Precursor Emissions*. June 2020.

³⁶ Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment in Sacramento County: Toxic Air Contaminants*. April 2020.



Implementation of the proposed project would result in emissions of TACs from area sources, which could influence existing receptors. Emissions of TACs from construction, as well as emissions of existing sources of TACs on future sensitive receptors, are discussed in further depth in the sections below.

Construction Emissions

Construction-related activities would result in the generation of TACs, specifically DPM, from on-road haul trucks and off-road equipment exhaust emissions. Consequently, the operation of heavy equipment within the project site during demolition and project construction could result in exposure of nearby residents to DPM. As noted above, the proposed project would be constructed in several phases, and Phase 1 represents the most emissions-intensive phase.

As noted in the Methods section, sensitive receptors do not currently exist in the immediate vicinity of the Phase 1 area. However, as buildout of each phase occurs, receptors would be located on the project site, and construction activities would have the potential to occur adjacent to sensitive receptors. In order to model the worst-case scenario, the construction emissions modeling associated with construction of Phase 1 assumed sensitive receptors along the perimeter of the Phase 1 construction area. While these receptor locations are hypothetical for modeling purposes, the conditions represent the most emissions-intensive phase of construction occurring adjacent to sensitive receptors. In addition, an additional receptor was placed in the center of the Phase 1 construction area to represent receptors that would be exposed to emissions associated with subsequent phases of the proposed project in combination with the Phase 1 construction. The combination of the two receptor locations represents the maximum possible exposure to any one receptor through the course of the 30-year development associated with the proposed project.

In reality, because subsequent construction phases of the project would likely be less intense than Phase 1, construction which would occur adjacent to receptors would be less intense than what is evaluated herein. According to CARB, DPM is highly dispersive in the atmosphere. Specifically, based on dispersion of DPM emissions, at a distance of 1,000 feet, DPM concentrations are decreased by approximately 80 percent.³⁷ As such, the maximally exposed individual of any given phase would be buffered sufficiently from DPM emissions associated with construction of any remaining phases such that exposure to substantial concentrations of DPM would not occur beyond what is presented herein. In addition, regulations pertaining to construction vehicles and equipment, including, but not limited to, State and federal vehicle standards, are becoming increasingly more stringent. As such, construction of the subsequent phases would be anticipated to generate less TAC emissions as future equipment regulations become effective, and construction equipment and vehicles become cleaner.

The cancer risk and non-cancer hazard indices were estimated and are presented in Table 12. As shown in Table 12, TAC emissions related to construction of the proposed project would not result in non-cancer hazard index health risks in excess of the SMAQMD's thresholds. However, while unlikely given the highly conservative assumptions included in the model, the potential exists for construction of the

³⁷ California Air Resources Board. *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005.



proposed project to result in cancer risks in excess of the SMAQMD threshold of significance. Therefore, a potentially significant impact could occur.

Table 12 Maximum Cancer Risk and Hazard Index Associated with Construction of Phase I			
	Cancer Risk (per million persons)	Acute Hazard Index	Chronic Hazard Index
Result at Maximally Exposed Receptor	7.32	0.00	0.002544
Result at On-Site Receptor	11.96	0.00	0.004156
<i>Total</i>	<i>19.28</i>	<i>0.00</i>	<i>0.0067</i>
Thresholds of Significance	10.00	1.00	1.00
Exceed Thresholds?	YES	NO	NO
<i>Sources: AERMOD and HARP 2 RAST, April 2023, January 2024 (see Appendix C).</i>			

Operational TACs on Existing Receptors

The CARB's Handbook identified major sources of TACs, including, but not limited to, freeways and high traffic roads, GDFs, chrome plating operations, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM.

The proposed project entails the development of primarily residential and commercial land uses and, thus, does not include any operations that would be considered a substantial source of stationary TACs. Although the project could include the implementation of new GDFs, the project would be required to comply with the CARB's recommended buffer distances which ensure that nearby sensitive receptors are not adversely affected by TAC emissions associated with such GDFs. Accordingly, operations of the proposed project would not expose sensitive receptors to excess concentrations of TACs. However, the existing receptors located to the south of the site, across I-80, could be exposed to increased DPM emissions associated with increased traffic on I-80 generated by the proposed project, as discussed below.

Operational TACs on Future Receptors

The CARB has identified DPM from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Gasoline includes multiple TACs, which are released through various processes during the operation of GDFs. Such TACs include benzene, ethyl benzene, toluene, and xylene, among others. The following analysis evaluates the potential health risks associated with the proposed multi-family housing in close proximity to two existing GDFs and I-80.

To address potential health impacts that could result from the existing GDF operations and operations of I-80 upon the nearby proposed residences to the west, emissions of pollutants related to such sources were estimated and the potential health risks were



subsequently calculated. The dispersion of benzene emissions from each GDF were modeled using AERMOD, and the health risks associated with exposure to such concentrations were calculated using HARP 2 RAST. The cancer risk per million persons associated with DPM emissions from I-80 were determined using the SMAQMD's Mobile Sources Air Toxics Protocol Tool. In addition, the SMAQMD's Mobile Sources Air Toxics Protocol Tool provided the concentration of PM_{2.5} at nearby receptors, which was then used to calculate the associated chronic hazard index using HARP 2 RAST. As noted previously, the SMAQMD does not have adopted thresholds of significance for cumulative health effects from multiple sources of TACs. In the absence of adopted cumulative thresholds, the SMAQMD recommends presenting the BAAQMDs thresholds as the applicable thresholds of significance.³⁸

The results of the HRA for Existing conditions indicate that the cancer risk per million people associated with operations of the existing GDFs and traffic along I-80 would exceed the applicable cumulative threshold of significance of 100 cancers per million people. Thus, an existing hazardous condition is present. Accordingly, a model run was prepared for Cumulative No Project and Cumulative Plus Project conditions to determine whether the proposed project would exacerbate the existing hazardous condition. For the Cumulative No Project and Cumulative Plus Project conditions, vehicle emission factors for the year 2045 were obtained from EMFAC2021, and traffic volumes along the study segment were provided by Fehr & Peers.³⁹ The results of the modeling are presented in Table 13.

According to BAAQMD guidance, a project would have a cumulative significant impact if the aggregate total of all past, present, and foreseeable future sources, plus the contribution from the project, exceeds a cancer risk of 100 in one million persons, a chronic non-cancer risk of 10.0, or an annual average PM_{2.5} concentration of 0.8 µg/m³. As presented in the table, the total cancer risk for Cumulative No Project Conditions would be 287.41 cancer risks per million, and the Cumulative Plus Project Conditions would be 331.79 cancer risks per million. Therefore, the proposed project would exacerbate existing conditions related to potential health risks associated with the proposed multi-family housing in close proximity to two existing GDFs and I-80, and a cumulative significant impact would occur.

Similarly, as discussed above, the existing receptors located to the south of the site, across I-80, would be exposed to increased DPM emissions associated with increased traffic on I-80 generated by the proposed project. Total cancer risk for Cumulative No Project Conditions and the Cumulative Plus Project Conditions would generally be the same as the cancer risks associated with the proposed multi-family housing on-site, presented in Table 13. Therefore, the proposed project would exacerbate existing conditions related to potential health risks associated with the existing receptors located to the south of the site, across I-80, and a cumulative significant impact would occur.

³⁸ Rachel DuBose, Air Quality Planner and Analyst, Sacramento Metropolitan Air Quality Management District. Personal Communication [phone] with Briette Shea, Associate/Air Quality Technician, Raney Planning and Management, Inc. July 27, 2021.

³⁹ John Gard, Fehr & Peers. Personal communication [email] with Rod Stinson, Vice President/Air Quality Specialist at Raney Planning & Management. September 27, 2022.



Table 13
Cumulative Cancer Risk and Hazard Index

	Cancer Risk (per million persons)	Acute Hazard Index	Chronic Hazard Index	PM_{2.5} Concentration
GDF 1 and 2 ¹	28.12	0.74	0.12	N/A
DPM from I-80 ² Existing Conditions	145.63	0.00	0.03	0.16832
DPM from I-80 ² Cumulative No Project Conditions	259.29	0.00	0.06	0.0997
DPM from I-80 ² Cumulative Plus Project Conditions	303.67	0.00	0.07	0.35099
Totals				
Total Health Risk Existing Conditions	173.75	0.74	0.15	0.16832
Total Health Risk Cumulative No Project Conditions	287.41	0.74	0.18	0.0997
Total Health Risk Cumulative Plus Project Conditions	331.79	0.74	0.19	0.35099
Sources:				
1 AERMOD and HARP 2 RAST, July 2021 (see Appendix C).				
2 AERMOD and HARP 2 RAST, September 2022 (see Appendix C).				

It should be noted, however, that the cancer and non-cancer hazard index risks presented above represent an absolute worst-case scenario with regard to project traffic. In reality, regulations pertaining to vehicle emissions, including, but not limited to, State and federal vehicle standards, are becoming increasingly more stringent. As such, project traffic, as well as future traffic travelling along I-80, is anticipated to generate less TAC emissions as future regulations become effective, and vehicle engines become cleaner. Therefore, when considering the effect of future, more stringent regulations, the cancer and non-cancer hazard index risks presented above represent a conservative estimate.

Criteria Pollutants

Recent rulings from the California Supreme Court (including the *Sierra Club v. County of Fresno* (2018) 6 Cal. 5th 502 case regarding the proposed Friant Ranch Project) have underscored the need for analyzing potential health impacts resulting from the emission of criteria pollutants during operations of proposed projects. Although analysis of project-level health risks related to the emission of CO and TACs has long been practiced under CEQA, the analysis of health impacts due to individual projects resulting from emissions of criteria pollutants is a relatively new field. In October of 2020, SMAQMD released the *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District* (Guidance) for the analysis of criteria emissions in areas within the SMAQMD's jurisdiction. The Guidance represents SMAQMD's effort to develop a methodology that provides a consistent, reliable, and meaningful



analysis in response to the Supreme Court's direction on correlating health impacts to a project's emissions.

The Guidance was prepared by conducting regional photochemical modeling, and relies on the USEPA's Benefits Mapping and Analysis Program (BenMAP) to assess health impacts from ozone and PM_{2.5}. SMAQMD has prepared two tools that are intended for use in analyzing health risks from criteria pollutants. Small projects with criteria pollutant emissions close to or below SMAQMD's adopted thresholds of significance may use the *Minor Project Health Effect Screening Tool*, while larger projects with emissions between two and eight times greater than SMAQMD's adopted thresholds may use the *Strategic Area Project Health Screening Tool*.⁴⁰ Considering the proposed project would result in emissions which exceed the SMAQMD's thresholds of significance, the project would qualify for the *Strategic Area Project Health Screening Tool*. The *Strategic Area Project Health Screening Tool* is based on location specific modeling, in five specific growth area locations. The proposed project is located closest to the Downtown Sacramento location in the *Strategic Area Project Health Screening Tool*. Results from the *Strategic Area Project Health Effects Screening Tool* are shown in Table 14.

As shown in the table, the proposed project could result in 5.2 premature deaths per year due to the project's PM_{2.5} impacts, and could result in 0.14 premature deaths per year due to the project's ozone impacts. Such numbers represent a very small increase over the background incidence of premature deaths due to PM_{2.5} and ozone concentrations (0.0120 percent and 0.0005 percent, respectively). PM_{2.5} emissions from the proposed project could result in 2.1 asthma-related emergency room visits per year, and ozone emissions from the proposed project could result in 2.9 asthma-related emergency room visits per year. Such numbers represent a minute increase over the background level of asthma-related emergency room visits (0.0110 percent and 0.0330 percent, respectively). Additionally, it is noted that the baseline health impacts and the estimated health impacts associated with the proposed project encompass the 5-Air-District Region, which includes over seven counties.

A threshold of significance has not been established for such data and, thus, the results of the *Strategic Area Project Health Screening Tool* have been presented for informational purposes only.

Conclusion

Based on the above discussion, the proposed project would not expose any sensitive receptors to excess concentrations of localized CO or criteria pollutants during construction or operations of the project. However, with regard to TAC emissions, the proposed project could result in construction-related cancer risks in excess of the SMAQMD threshold of significance, and would exacerbate existing conditions related to potential health risks associated with the proposed multi-family housing in close proximity to two existing GDFs and I-80, as well as the exposure of the existing receptors to the south of the project site to increased DPM emissions associated with project traffic along I-80. Consequently, the proposed project would result in a **significant** impact related to the exposure of sensitive receptors to substantial pollutant concentrations.

⁴⁰ Sacramento Metropolitan Air Quality Management District. *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District*. June 2020.



Table 14
Health Effects from Proposed Project

Health Endpoint	Age Range ¹	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(%)	
Respiratory PM _{2.5}				
Emergency Room Visits, Asthma	0-99	2.1	0.0110	18,419
Hospital Admissions, Asthma	0-64	0.13	0.0072	1,846
Hospital Admissions, All Respiratory	65-99	0.70	0.0036	19,644
Cardiovascular PM _{2.5}				
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65-99	0.37	0.0015	24,037
Acute Myocardial Infarction, Nonfatal	18-24	0.00019	0.0049	4
Acute Myocardial Infarction, Nonfatal	25-44	0.016	0.0052	308
Acute Myocardial Infarction, Nonfatal	45-54	0.036	0.0049	741
Acute Myocardial Infarction, Nonfatal	55-64	0.062	0.0050	1,239
Acute Myocardial Infarction, Nonfatal	65-99	0.24	0.0047	5,052
Mortality PM _{2.5}				
Mortality, All Cause	30-99	5.2	0.0120	44,766
Respiratory Ozone				
Hospital Admissions, All Respiratory	65-99	0.20	0.0010	19,644
Emergency Room Visits, Asthma	0-17	1.1	0.0190	5,859
Emergency Room Visits, Asthma	18-99	1.8	0.0140	12,560
Mortality Ozone				
Mortality, Non-Accidental	0-99	0.14	0.0005	30,386
¹ Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones used by the USEPA in their health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.				
² Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or “background health incidence”) values. Health effects are shown for the Reduced Sacramento 4-km Modeling Domain and the 5-Air-District Region.				
³ The percent of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, the background incidence rates cover the 5-Air-District Region (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP.				
⁴ The total number of health incidences across the 5-Air-District Region is calculated based on the modeling data. The information is presented to assist in providing overall health context.				
Source: Sac Metro Air District Strategic Area Project Health Effects Tool, Version 2, Published September 2020.				

Source: Sac Metro Air District Strategic Area Project Health Effects Tool, Version 2, Published September 2020.



Mitigation Measure(s)

With regard to construction-related cancer risks, as required by Mitigation Measure AQ-1 presented above, off-road equipment used during construction of the proposed project would be required to meet Tier 4 final engine standards.

Based on modeling conducted, as demonstrated in Table 15, use of higher tier construction equipment for all construction activities would ensure that DPM emissions from construction equipment do not result in increased health risks in excess of SMAQMD's standards. Consequently, implementation of AQ-1, as required by AQ-3, below, would reduce such impacts to a less-than-significant level.

Table 15			
Maximum Cancer Risk and Hazard Index Associated with Construction of Phase I			
	Cancer Risk (per million persons)	Acute Hazard Index	Chronic Hazard Index
Result at Maximally Exposed Receptor	1.96	0.00	0.00059
Result at On-Site Receptor	2.76	0.00	0.00096
<i>Total</i>	<i>4.72</i>	<i>0.00</i>	<i>0.00155</i>
Thresholds of Significance	10.00	1.00	1.00
Exceed Thresholds?	NO	NO	NO
<i>Sources: AERMOD and HARP 2 RAST, January 2024 (see Appendix C).</i>			

With regard to operational cancer risks, Mitigation Measure AQ-4 would require the proposed project to include a minimum MERV 13 filter in the HVAC system for all on-site sensitive land uses within 500 feet of I-80. MERV 13 filters are rated to capture 80 to 90.9 percent of particles that are 1.3 to 3.0 microns in size, and over 90 percent of particles that are 3.0 to 10.0 microns in size.⁴¹ In addition, the upgrade from standard home filters to MERV 13 filters has been shown to result in a decrease in mortality of 0.5 per 1,000 persons.⁴² Therefore, the inclusion of MERV 13 filters in the proposed project would dramatically reduce resident PM_{2.5} exposure. In fact, the installation of upgraded MERV rating filters has been shown to reduce indoor PM_{2.5} exposure by 19 to 28 percent.⁴³ A linear relationship exists between PM_{2.5} concentration and the associated cancer risk when all other variables, including exposure time, remains constant. Therefore, in the case of the proposed project, a 19 to 28 percent reduction in PM_{2.5} concentration would equate to a 19 to 28 percent reduction in cancer risk. After installation of MERV 13 filters, the total Cumulative Plus Project cancer risk can reasonably be expected to range between 238.87 to 268.72 cases per million, which would be below the total Cumulative No Project cancer risk of 287.41 cases per million.

⁴¹ U.S. Environmental Protection Agency. *Indoor Air Quality (IAQ): What is a MERV rating?* Available at: <https://www.epa.gov/indoor-air-quality-iaq/what-merv-rating-1>. Accessed June 2023.

⁴² W.J. Fisk and W. R. Chan. *Effectiveness and cost of reducing particle-related mortality with particle filtration*. February 1, 2017.

⁴³ M.S. Zuraimi and Zhongchao Tan. *Impact of residential building regulations on reducing indoor exposures to outdoor PM_{2.5} in Toronto*. March 14, 2015.



Therefore, implementation of Mitigation Measure AQ-4 would ensure that the proposed project would not exacerbate cancer risk for future on-site receptors.

Installation of a minimum MERV 13 filter in the HVAC systems for the existing sensitive receptors to the south of the project site, across I-80, would ensure that the proposed project would not exacerbate cancer risk for such receptors as well. However, because installation of such filters in the existing residences would require resident approval, neither Sacramento County, nor the project applicant, can legally impose such improvements on private properties within the City of Sacramento. Therefore, the project's contribution to the cumulative health risk would remain *significant and unavoidable*.

AQ-3 *Implement Mitigation Measure AQ-1.*

AQ-4 *For sensitive land uses within 500 feet of Interstate 80, as determined to be feasible by the Sacramento County Planning Department, the project applicant shall implement measures that include, but are not limited to, the following:*

- *Install, operate and maintain in good working order a central heating, ventilation and air conditioning (HVAC) system or other air intake system in the building, or in each individual unit, that meets or exceeds a minimum efficiency reporting value (MERV) of 13 or higher. The HVAC system shall include the following features: Installation of a high efficiency filter and/or carbon filter to filter particulates and other chemical matter from entering the building. Either high efficiency particulate air (HEPA) filters or American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) certified 85% supply filters shall be used.*
- *Maintain, repair and/or replace HVAC system on an ongoing and as needed basis or shall prepare an operation and maintenance manual for the HVAC system and the filter. The manual shall include the operating instructions and the maintenance and replacement schedule. This manual shall be included in the Covenants, Conditions and Restrictions (CC&Rs) for residential projects and/or distributed to the building maintenance staff. In addition, the applicant shall prepare a separate homeowners manual. The manual shall contain the operating instructions and the maintenance and replacement schedule for the HVAC system and the filters.*
- *Install passive electrostatic filtering systems with low air velocities (i.e., less than 1 mph).*
- *Individual and common exterior open space and outdoor activity areas proposed as part of individual projects shall be located as far away as possible within the project site boundary, face away major freeways, and shall be shielded from the source (i.e., the roadway) of air pollution by buildings or otherwise buffered to further reduce air pollution for project occupants.*
- *Locate air intakes and design windows to reduce PM exposure (e.g., windows nearest to the roadway do not open).*



- *Planting trees and/or vegetation between sensitive receptors and pollution source. Trees that are best suited to trapping PM shall be planted, including one or more of the following species: Pine (Pinus nigra var. maritima), Cypress (X Cupressocyparis leylandii), Hybrid poplar (Populus deltoids X trichocarpa), California pepper tree (Schinus molle) and Redwoods (Sequoia sempervirens).*

AQ-3 Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Based on the analysis below, the impact is less than significant.

Pollutants of principal concern include emissions leading to odors, emission of dust, or emissions considered to constitute air pollutants. Air pollutants have been discussed in sections AQ-1 and AQ-2 above. Therefore, the following discussion focuses on emissions of odors and dust.

Odors

Construction activities often include diesel-fueled equipment and heavy-duty trucks, which could create odors associated with diesel fumes that may be considered objectionable. However, construction activities would be temporary, and hours of operation for construction equipment would be restricted to the hours of 6:00 AM and 8:00 PM on weekdays and 7:00 AM and 8:00 PM on weekends per Section 6.68.090 of the Sacramento County Code. Project construction would also be required to comply with all applicable SMAQMD rules and regulations, listed under section AQ-1 above. The aforementioned regulations would help to minimize emissions, including emissions leading to odors. Accordingly, substantial objectionable odors would not be expected to occur during construction activities.

Full buildout of the project area would include operations of fast-food and sit-down restaurants, and other uses which could include commercial kitchens. Operations of the commercial kitchens would have the potential to result in emissions of odors related to food preparation and disposal. In particular, preparation of oily food, some baking processes, and cooking using charbroiling grills may create odorous emissions. However, commercial kitchens and cooking areas are required to comply with State and local regulations associated with cooking equipment and controls, such as grease filtration and removal systems, exhaust hood systems, and blowers to move air into the hood systems, through air cleaning equipment, and then outdoors. Such equipment would ensure that pollutants associated with smoke and exhaust from cooking surfaces would be captured and filtered, allowing only filtered air to be released into the atmosphere. For instance, Article 2, Ventilation, and Article 4, Refuse, of the California Retail Food Code, set standards for mechanical exhaust ventilation equipment and waste management to reduce the emissions of odors.⁴⁴ In addition, the disposal of solid waste, including food waste, is regulated under 6.20.115, Solid Waste Removal, of the Sacramento County Code.

Furthermore, the SMAQMD regulates objectionable odors through Rule 402 (Nuisance), which prohibits any person or source from emitting air contaminants that

⁴⁴ California Health and Safety Code: Division 104. Environmental Health, Part 7. California Retail Food Code. January 1, 2020.



cause detriment, nuisance, or annoyance to a considerable number of persons or the public. Rule 402 is enforced based on complaints. If complaints are received, the SMAQMD is required to investigate the complaint, as well as determine and ensure a solution for the source of the complaint, which could include operational modifications. Thus, although not anticipated, if odor complaints are made regarding food preparation or GDF operations after the proposed project is approved, the SMAQMD would ensure that such odors are addressed, and any potential odor effects reduced to less than significant.

Dust

As noted previously, construction of the proposed project is required to comply with all applicable SMAQMD rules and regulations, including, but not limited to, Rule 403 (Fugitive Dust) and Rule 404 (Particulate Matter). Furthermore, all projects within Sacramento County are required to implement the SMAQMD's BCECPs during construction, which are required as a condition of approval of development projects in Sacramento County. Compliance with SMAQMD rules and regulations and BCECP would help to ensure that dust is minimized during project construction. Following project construction, vehicles operating within the project site would be limited to paved areas of the site, which would not have the potential to create substantial dust emissions. Thus, project operations would not include sources of dust that could adversely affect a substantial number of people.

Conclusion

For the aforementioned reasons, project construction and operations would not result in substantial emissions, such as those leading to odors or dust, which could adversely affect a substantial number of people, and a **less-than-significant** impact would result.

Mitigation Measure(s)

None required.

Cumulative Impacts and Mitigation Measures

As defined in Section 15355 of the CEQA Guidelines, "cumulative impacts" refers to two or more individual effects which, when considered together, are considerable, compound, or increase other environmental impacts. The individual effects may be changes resulting from a single project or a number of separate projects. The cumulative impact from several projects is the change in the environment that results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects.

A project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development projects. The geographic context for the cumulative air quality and GHG analysis includes Sacramento County and surrounding areas within the portion of the SVAB that is designated nonattainment for ozone, PM₁₀, and PM_{2.5}.

AQ-4 Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors). Based on the



analysis below, and with the implementation of mitigation, the impact would be *cumulatively considerable* and *significant and unavoidable*.

A cumulative impact analysis considers a project over time in conjunction with other past, present, and reasonably foreseeable future projects whose impacts might compound those of the project being assessed. Due to the dispersive nature and regional sourcing of air pollutants, air pollution is already largely a cumulative impact. The non-attainment status of regional pollutants, including ozone and PM, is a result of past and present development, and, thus, cumulative impacts related to these pollutants could be considered cumulatively significant.

The SMAQMD directs lead agencies to use the region's existing attainment plans as a basis for analysis of cumulative emissions. A project's interference with such plans may be determined through the use of the SMAQMD's recommended thresholds of significance for ozone precursors, PM_{2.5}, and PM₁₀. Given the project's required compliance with all applicable BMPs, the SMAQMD's recommended cumulative thresholds are identical to the operational thresholds, which are presented in Table 6. Accordingly, if the proposed project would result in an increase of ROG, NO_x, PM₁₀, or PM_{2.5} in excess of SMAQMD's operational phase cumulative-level emissions threshold, which are equivalent to SMAQMD's project-level operational emissions thresholds, the project could potentially result in a significant incremental contribution towards cumulative air quality impacts. The proposed project's unmitigated cumulative contribution to regional emissions is equivalent to the project's unmitigated operational emissions, as presented in Table 9.

As discussed above, the proposed project would result in operational emissions which exceed all applicable SMAQMD thresholds of significance. Therefore, the proposed project could be considered to result in a ***cumulatively considerable*** net increase of a criteria pollutant for which the project region is non-attainment.

Mitigation Measure(s)

Implementation of the following mitigation measure represents all feasible mitigation to address criteria pollutant emissions. However, as presented in Table 11, emission levels would still exceed the applicable thresholds of significance and, therefore, the impact would remain *significant and unavoidable*.

AQ-5. *Implement Mitigation Measure AQ-2.*

GHG-1 Generation of GHG emissions that may have a significant impact on the environment or conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs. Based on the analysis below, and with the implementation of mitigation, the project's incremental contribution to this significant cumulative impact is *less than cumulatively considerable*.

Buildout of the proposed project would contribute to increases of GHG emissions that are associated with global climate change during construction and operation.



Construction GHG Emissions

The estimated unmitigated maximum annual construction-related emissions from the proposed project are presented in Table 16. As shown in the table, the maximum annual emissions related to construction of the proposed project would exceed the SMAQMD's threshold of 1,100 MTCO₂e/yr. Therefore, unmitigated project construction emissions could be considered to result in a cumulatively considerable contribution to global climate change.

Table 16	
Maximum Unmitigated Construction GHG Emissions	
	GHG Emissions (MTCO₂e/yr)
Maximum Annual Construction Emissions	5,238.86
SMAQMD Threshold	1,100.00
Exceed Thresholds?	YES
<i>Source: CalEEMod, April 2023 (see Appendix A).</i>	

Operational GHG Emissions

The unmitigated maximum annual operational GHG emissions were estimated under both A) existing conditions and B) the proposed project. The results are presented in Table 17.

Table 17			
Unmitigated Annual Operational GHG Emissions (MTCO₂e/yr)			
Source	A) Existing Conditions	B) Proposed Project	Net Change
Area	0.35	161.62	161.27
Energy	700.21	14,161.52	13,461.31
Mobile	1,395.13	54,632.27	53,237.14
Waste	245.26	6,392.06	6,146.80
Water	27.91	649.98	622.07
Total Annual Operational GHG Emissions	2,368.85	75,997.45	73,628.60
<i>Source: CalEEMod, July 2021; and CalEEMod, March 2022 (see Appendix A).</i>			

The proposed project's compliance with the SMAQMD's BMPs is discussed in further detail below.

BMP-1: No Natural Gas

Consistent with BMP-1, the residential portion of the proposed project would not include natural gas infrastructure. However, the non-residential components are anticipated to include natural gas. Pursuant to SMAQMD's Guidance, BMP-1 may be replaced with an alternative mitigation strategy that would reduce GHG to the same extent. Nonetheless, the non-residential components would be required to pre-wire for a future retrofit to remove natural gas plumbing and become all-electric.

Per the CalEEMod results, non-residential natural gas combustion at full buildout of the proposed project accounts for 5,995.77 MTCO₂e/yr. In order to fully comply with BMP-1 at full buildout, the proposed project must reduce overall GHG emissions by



5,995.77 MTCO₂e/yr. It is noted, however, that project buildout would be phased, and not all non-residential land uses would become operational at once. Thus, throughout the development period, non-residential natural gas combustion would result in fewer GHG emissions per year. Compliance with BMP-1 through the equivalent reduction in GHG emissions would be ensured by Mitigation Measure GHG-3.

BMP-2: EV-Ready

Consistent with BMP-2, the proposed project would provide EV Ready parking spaces at the ratio with which the current CalGreen Tier 2 standards require EV Capable spaces. Given that the project would be constructed over several phases across approximately 20 years in response to market-based demand for housing, the current (i.e., most recently adopted) CalGreen Tier 2 standards would vary depending on when each specific phase of the project is developed. For example, Table 18 presents EV Ready parking spaces requirements based on the 2022 CALGreen Code, which is the most recently adopted version of CALGreen Code currently available. Compliance with BMP-2 would be ensured by Mitigation Measure GHG-2.

Table 18 EV Ready Parking Space Requirements			
Land Use Type	Requirements for New Construction		
1-2 family dwelling units/townhouses ¹	Each dwelling unit shall have a listed raceway to accommodate a dedicated 208/40-volt branch circuit		
Multifamily dwelling units, hotels, and motels ²	55 percent of total parking spaces shall be EV Ready, and 20 percent of spaces shall have Level 2 EV Chargers		
Nonresidential ³	Total Number of Parking Spaces	EV Ready Spaces	EVSE Spaces
	0-9	3	0
	10-25	8	3
	26-50	17	6
	51-75	28	9
	76-100	40	13
	101-150	57	19
	151-200	79	26
	201 and over	45 percent of actual parking spaces	33 percent of EV Ready Spaces
Sources: 1. 2022 CalGreen Code Section A4.106.8.1. 2. 2022 CalGreen Code Section A4.106.8.2. 3. 2022 CalGreen Code Table A5.106.5.3.3.			

BMP-3: No Net increase in Total VMT

Because the project is located within the jurisdiction of SMAQMD, the project is required to implement BMPs 1 and 2. However, even with implementation of BMPs 1 and 2, the project would still result in annual emissions over the SMAQMD's threshold of significance and, therefore, would be subject to BMP 3.

A Transportation Impact Analysis was prepared for the proposed project, based primarily on the OPR's *Technical Advisory on Evaluating Transportation Impacts in*



CEQA as well as Sacramento County's *Transportation Analysis Guidelines* (TAG).^{45,46} Per the TAG, the VMT analysis was performed using the Sacramento Area Council of Government's (SACOG) SACSIM19 tour-based travel demand model. The version of the model that was used is similar to what was used as the basis for SACOG's 2020 Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS), but has been improved upon by considering the length of trips generated by land uses within the SACOG region that have an origin or destination outside the region. SACSIM19 simulates people's activities on a typical weekday and tracks travel of individuals throughout the day in trip tours. The model allocates household and employment at a parcel level, which allows the model to capture smaller-scale land use changes and demographic differences. SACSIM19 is sensitive to the local physical environment, including the presence (or absence) of pedestrian and bicycle facilities, the patterns of local street networks (e.g., grid vs. cul-de-sacs), and the density, proximity and mix of surrounding land uses (i.e. employment destinations, schools, retail, parks, etc).

SACSIM19 estimated that 15.4 percent of home-based household trips would be internal to the project site, which is considered low given the diversity and proximity of on-site land uses. In contrast, the MXD+ mixed-use trip generation model estimated 22.9 percent of home-based trips being internal. According to Fehr and Peers, because SACSIM19 is a regional travel demand model, while MXD+ was developed to more accurately estimate internal trips associated with mixed-use projects, the household VMT estimate from SACSIM19 was adjusted to reflect the expected level of internal resident trips. Adjustments were not made to work tour VMT per employee because the results appeared reasonable, and work tour VMT represents a relatively small (i.e., approximately 20 percent) component of the project's total VMT.

Results of the modeled VMT per capita associated with the proposed project is presented in Table 19.

Table 19		
VMT per Capita and per Employee Baseline Conditions		
Measure	Work Tour VMT Per Employee¹	Household VMT per Capita²
Regional Average ²	18.48	17.44
Project ⁴	15.31	14.34
Threshold of Significance³	15.70	14.83
Exceeds threshold?	NO	NO
Notes: 1. Calculated per Sacramento County TAG. 2. Regional Average is from Existing No Project Model run. VMT includes the entire length of trips outside of SACOG Region, whereas Sacramento County TAG threshold didn't include trip length outside SACOG Region; hence, values are slightly different. 3. 85 percent of Regional Average per Sacramento County TAG. 4. Project was added to the base year MTP/SCS model. Average trip distance outside of SACOG region for the project was estimated using the average of nearby TAZs.		
Source: Fehr and Peers. Draft Report CEQA Transportation Impact Analysis for Upper Westside Specific Plan. June 16, 2021.		

⁴⁵ Governor's Office of Planning and Research. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.

⁴⁶ Sacramento County. *Transportation Analysis Guidelines*. September 10, 2020.



As demonstrated in the table, the proposed project would not exceed the applicable threshold of significant related to VMT per capita.

In addition, the project's retail components are considered regional-serving because they are situated nearest to and visible from I-80. The SACSIM19 model was run for the project with and without the regional retail component. The results are shown in Table 20.

As shown in the table, the proposed project without the regional retail component generates more VMT than the project with the regional retail added, as the regional retail uses decrease the travel distance for many residents in the project area who are traveling to a regional retail destination.

Based on the above, the proposed project would comply with BMP-3.

Table 20 Effect of Project's Regional Retail on VMT – Baseline Conditions		
Measure¹	Base Year SACSIM Model Plus Project	Base Year SACSIM Model Plus Project Without Regional Retail
Total Regional VMT	42,992,142	43,014,069
¹ Calculated using Daysim trip tables, which is a step within the overall SACSIM19 model.		
Source: Fehr and Peers. Draft Report CEQA Transportation Impact Analysis for Upper Westside Specific Plan. June 16, 2021.		

Consistency with 2022 Scoping Plan

Appendix D to the CARB's 2022 Scoping Plan provides examples of key project attributes that could be considered to assess a project's compliance with the State's 2030 GHG emissions reductions goals. Thus, general implementation of the suggested project attributes within the 2022 Scoping Plan would be considered to demonstrate the project's compliance with SB 32. The project's consistency with the key attributes within the 2022 Scoping Plan is assessed in Table 21 below.

As shown in Table 21, the proposed project would generally comply with the majority of the suggested project attributes. Because the 2022 Scoping Plan is the CARB's strategy for meeting the State's 2030 emissions goals established by SB 32, the project would not be considered to conflict with SB 32.

Table 21 Project Consistency with the 2022 Scoping Plan	
Key Project Attributes	Consistency Discussion
Provides EV charging infrastructure that, at minimum, meets the most ambitious voluntary standard in the California Green Building Standards Code at the time of project approval.	Consistent with SMAQMD BMP-2, as discussed above, the proposed project would provide EV Ready parking spaces at the ratio with which the current CalGreen Tier 2 standards require EV Capable spaces (see Table 18). Compliance with BMP-2 would be ensured by Mitigation Measure GHG-2.



Table 21 Project Consistency with the 2022 Scoping Plan	
Key Project Attributes	Consistency Discussion
Is located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer).	The project site is predominantly agricultural land with existing commercial uses, including a truck stop, restaurants, gas stations, and hotels located west of the I-80 off/on-ramp (see Figure 1 and Figure 2). The site is also surrounded by I-80, multi-family residences, and a business park to the east; and single-family residences to the east, west, north, and south. Therefore, the proposed project would develop the site with urban uses consistent with the existing uses in the project vicinity. The project would also include roadway improvements, including the expansion of El Centro Road and the development of additional roadways throughout the project site.
Does not result in the loss or conversion of natural and working lands.	While the project site is predominantly agricultural land, existing commercial uses, including a truck stop, restaurants, gas stations, and hotels are currently located on-site. In addition, portions of the project site are designated Commercial/Office by the Sacramento County General Plan, and are zoned General Commercial, and Highway Travel Commercial. Therefore, portions of the site have been anticipated for urban development by the County.
Consists of transit-supportive densities (minimum of 20 residential dwelling units per acre), <u>or</u> Is in proximity to existing transit stops (within a half mile), <u>or</u> Satisfies more detailed and stringent criteria specified in the region's SCS.	The proposed project includes a range of residential uses, including very low density, low density, low/medium density, medium density, high density, and very high density residential, which would be developed at a density of one dwelling unit per acre (du/ac) to 32.5 du/ac. Overall, approximately 65.5 acres of the site would be developed at a density higher than 20 du/ac. It should also be noted that the proposed project would include the development of commercial mixed use and employment/highway commercial uses, as well as schools. By providing a range of residential, commercial, and school uses within the project site, approximately 22.9 percent of home-based trips associated with the proposed project would be internal. In addition, the proposed project's regional retail uses decrease the travel distance for many residents in the project area who are traveling to a regional retail destination.
Reduces parking requirements by:	The proposed project would create a Specific Plan for the Upper Westside planning area. As such, the analysis included herein is a



Table 21 Project Consistency with the 2022 Scoping Plan	
Key Project Attributes	Consistency Discussion
• Eliminating parking requirements or including maximum allowable parking ratios (i.e., the ratio of parking spaces to residential units or square feet); <u>or</u> • Providing residential parking supply at a ratio of less than one parking space per dwelling unit; <u>or</u> • For multifamily residential development, requiring parking costs to be unbundled from costs to rent or own a residential unit.	program-level analysis of the Specific Plan, and specific development proposals have not yet been prepared for the proposed land uses within the Specific Plan area. Nonetheless, as specific development proposals are prepared in the future, detailed plans would be prepared, which would include parking standards, which would require review and approval by Sacramento County. As such, future review of specific development proposals would ensure that the key project attributes identified in the 2022 Scoping Plan related to parking are implemented.
At least 20 percent of units included are affordable to lower-income residents.	As discussed above, the proposed project would create a Specific Plan for the Upper Westside planning area. As such, the analysis included herein is a program-level analysis of the Specific Plan, and specific development proposals have not yet been prepared for the proposed land uses within the Specific Plan area. Specific development proposals prepared in the future would be required to comply with the Sacramento County Affordable Housing Ordinance (Chapter 22.35 of the Sacramento County Code), which requires new development projects pay an affordability fee on all newly constructed market rate units; comply with the development project's approved affordable housing plan, if one exists; or enter into a development agreement or other form of agreement with the County which provides for a fee credit for land dedication, construction of affordable dwelling units, or other mechanism which leads to the production of affordable housing, in an amount at least equivalent to the affordability fee established by the County.
Results in no net loss of existing affordable units.	The project site does not currently include any affordable housing units. Therefore, the proposed project would not result in a net loss of existing affordable units.
Uses all-electric appliances without any natural gas connections and does not use propane or other fossil fuels for space heating, water heating, or indoor cooking.	As discussed above, consistent with SMAQMD BMP-1, the residential portion of the proposed project would not include natural gas infrastructure. However, the non-residential components are anticipated to include natural gas. Pursuant to SMAQMD's Guidance, BMP-1 may be replaced with an alternative mitigation strategy that would reduce GHG to the same extent. As such,



Table 21 Project Consistency with the 2022 Scoping Plan	
Key Project Attributes	Consistency Discussion
	compliance with BMP-1 through the equivalent reduction in GHG emissions would be ensured by Mitigation Measure GHG-3.
Source: California Air Resources Board. 2022 Scoping Plan [Appendix D]. December 2022.	

Conclusion

Based on the analysis presented above, while the proposed project would generally comply with the majority of the suggested project attributes included in the 2022 Scoping Plan, the proposed project would exceed SMAQMD's 1,100 MTCO₂e/yr threshold of significance during construction. In addition, based on the project site proximity to downtown Sacramento, the proposed project would inherently comply with SMAQMD Tier 2 requirement. However, during operations, if the SMAQMD's Tier 1 requirements are not ensured, a potentially significant impact could occur. Thus, the proposed project could be considered to generate GHG emissions, either directly or indirectly, that would have a significant impact on the environment, or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Consequently, the project could result in a cumulatively considerable incremental contribution to GHG emissions or climate change and the project's impact would be **potentially significant**.

Mitigation Measure(s)

Mitigation Measure GHG-1 ensures that construction-related GHG emissions are reduced to below the applicable threshold of significance. Mitigation Measure GHG-2 ensures that Tier 1 BMP 2 is implemented, and Mitigation Measure GHG-3 ensures that an equivalent GHG reduction is applied to establish compliance with Tier 1 BMP 1. Therefore, implementation of the following mitigation measures would reduce the above potentially significant impact to a *less-than-significant* level.

Construction

GHG-1 *Prior to the initiation of construction, the applicant shall demonstrate that construction-related GHG emissions would be reduced to 1,100 MTCO₂e/yr and shall submit proof to the County's Department of Planning and Environmental Review.*

Construction-related GHG emissions can be reduced through several options. The SMAQMD recommends the following options for reducing greenhouse gas emission from construction projects:

- *Modify the construction schedule to reduce the intensity of construction to lower emissions;*
- *Ensure that phases of development do not overlap;*
- *Use of renewable diesel for construction fuel rather than diesel;*
- *Improve fuel efficiency from construction equipment by:*
 - *Minimizing idling time either by shutting equipment off when not in use or reducing the time of idling to no more than three minutes (five-minute limit is required by the state airborne*



- toxics control measure [Title 13, sections 2449(d)(3) and 2485 of the California Code of Regulations]). Provide clear signage that posts this requirement for workers at the entrances to the site; and
- Using equipment with new technologies (repowered engines, electric drive trains).
 - Perform on-site emission reductions such as implementing on-site material hauling with trucks equipped with on-road engines (if determined to be less emissive than the off-road engines) or real, quantifiable, permanent, verifiable, and enforceable on-site emission reductions;
 - Use alternative fuels for generators at construction sites such as propane or solar, or use electrical power;
 - Use a CARB-approved low carbon fuel for construction equipment; (NO_x emissions from the use of low carbon fuel must be reviewed and increases mitigated.)
 - Encourage and provide carpools, shuttle vans, transit passes and/or secure bicycle parking for construction worker commutes;
 - Reduce electricity use in the construction office by using LED bulbs, powering off computers every day, and replacing heating and cooling units with more efficient ones;
 - Recycle or salvage non-hazardous construction and demolition debris (goal of at least 75 percent by weight);
 - Use locally sourced or recycled materials for construction materials (goal of at least 20 percent based on costs for building materials, and based on volume for roadway, parking lot, sidewalk and curb materials). Wood products utilized should be certified through a sustainable forestry program;
 - Minimize the amount of concrete for paved surfaces or utilize a low carbon concrete option;
 - Produce concrete on-site if determined to be less emissive than transporting ready mix;
 - Use SmartWay certified trucks for deliveries and equipment transport; and
 - Develop a plan to efficiently use water for adequate dust control.

The project applicant may elect to implement any combination of the foregoing measures to reduce construction-related GHG emissions. All GHG emissions reductions must be quantified. Compliance with the aforementioned measures shall be ensured by the County's Department of Planning and Environmental Review.

If the quantified reduction measures do not reduce construction-related GHG emissions to below 1,100 MTCO₂e/yr, offsite carbon credits may be purchased to make up the difference. The purchase of off-site mitigation credits shall be negotiated with the County and SMAQMD at the time that credits are sought. Off-site mitigation credits shall be real, quantifiable, permanent, verifiable, enforceable, and additional, consistent with the standards set forth in Health and Safety Code section 38562, subdivisions (d)(1) and (d)(2). The offsets shall be retired, and emissions must be offset



through the year 2045. Such credits shall be based on CARB-approved protocols that are consistent with the criteria set forth in subdivision (a) of Section 95972 of Title 17 of the California Code of Regulations, and shall not allow the use of offset projects originating outside of California, except to the extent that the quality of the offsets, and their sufficiency under the standards set forth herein, can be verified by Sacramento County and/or the SMAQMD. Such credits must be purchased through one of the following: (i) a CARB-approved registry, such as the Climate Action Reserve, the American Carbon Registry, and the Verified Carbon Standard; (ii) any registry approved by CARB to act as a registry under the California Cap and Trade program; or (iii) any registry established by SMAQMD.

Operations

GHG-2 Consistent with SMAQMD's GHG BMP-2, prior to the approval of project improvement plans, the applicant shall indicate that EV Ready parking spaces shall be installed throughout the project site at the ratio with which the current CalGreen Tier 2 standards require EV Capable spaces. Compliance with this measure shall be ensured by the County's Department of Planning and Environmental Review.

GHG-3 Prior to the approval of project tentative maps, the applicant shall implement the following measures:

1. Consistent with SMAQMD's GHG BMP-1, natural gas shall be prohibited in all residential land uses; and
2. The applicant shall reduce GHG emissions associated with each phase of the proposed project at a rate of 0.001423 MTCO₂e/yr per square foot of non-residential development (5,995.77 MTCO₂e/yr / the modeled total of 4,213,916.52 square feet of non-residential development = 0.001432 MTCO₂e/yr per square foot of non-residential development) through any combination of the following on-site mitigation options:
 - Prohibiting natural gas infrastructure in a portion of the non-residential buildings.
 - Requiring on-site renewable energy generation for non-residential buildings in excess of Code requirements.
 - Increasing the number of EV charging stations.
 - Constructing on-site or fund off-site carbon sequestration projects (such as tree plantings or reforestation projects).
 - Implementing a Transportation Demand Management Program.
 - Should new and quantifiable GHG emission reduction technology become available, the applicant may otherwise achieve the required GHG emissions reduction through other means, subject to review and approval by Sacramento County and the SMAQMD.



The project applicant may elect to implement any combination of the foregoing measures to reduce operational GHG emissions. All GHG emissions reductions must be quantified.

If it is determined that the above on-site mitigation options are not sufficient to achieve the required GHG reduction, subject to the discretion of Sacramento County and the SMAQMD, off-site carbon credits may be purchased to make up the difference. The purchase of off-site mitigation credits shall be negotiated with the County and SMAQMD at the time that credits are sought. Off-site mitigation credits shall be real, quantifiable, permanent, verifiable, enforceable, and additional, consistent with the standards set forth in Health and Safety Code section 38562, subdivisions (d)(1) and (d)(2). The offsets shall be retired, and emissions must be offset through the year 2045. Such credits shall be based on CARB-approved protocols that are consistent with the criteria set forth in subdivision (a) of Section 95972 of Title 17 of the California Code of Regulations, and shall not allow the use of offset projects originating outside of California, except to the extent that the quality of the offsets, and their sufficiency under the standards set forth herein, can be verified by Sacramento County and/or the SMAQMD. Such credits must be purchased through one of the following: (i) a CARB-approved registry, such as the Climate Action Reserve, the American Carbon Registry, and the Verified Carbon Standard; (ii) any registry approved by CARB to act as a registry under the California Cap and Trade program; or (iii) any registry established by SMAQMD.

Compliance with the aforementioned measures shall be ensured by the County's Department of Planning and Environmental Review.



7. SOURCES

The following documents are referenced information sources used for the purposes of this Air Quality and Greenhouse Gas Impact Analysis:

1. Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines*. May 2017.
2. Cal-Adapt. *Local Climate Change Snapshot for Sacramento, California*, Available at: <https://cal-adapt.org/tools/local-climate-change-snapshot>. Accessed March 2022.
3. California Air Pollution Control Officers Association. *CAPCOA Air Toxics "Hot Spots" Program: Gasoline Service Station Industrywide Risk Assessment Guidelines*. November 1997.
4. California Air Resources Board. *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005.
5. California Air Resources Board. *Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling*. October 24, 2013. Available at: <http://www.arb.ca.gov/msprog/truck-idling/truck-idling.htm>. Accessed August 2021.
6. California Air Resources Board. *In-Use Off-Road Diesel Vehicle Regulation*. December 10, 2014. Available at: <http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm>. Accessed August 2021.
7. California Air Resources Board. *Reducing Toxic Air Pollutants in California's Communities*. February 6, 2002.
8. *California Health and Safety Code: Division 104. Environmental Health, Part 7. California Retail Food Code*. January 1, 2020.
9. Fehr and Peers. *Draft Report CEQA Transportation Impact Analysis for Upper Westside Specific Plan*. June 16, 2021.
10. Fehr and Peers. *Draft Technical Memorandum #2, Upper Westside Specific Plan – Project Trip Generation*. December 8, 2020.
11. Governor's Office of Planning and Research, California Energy Commission, and California Natural Resources Agency. *California's Fourth Climate Change Assessment, Sacramento Valley Region Report*. August 2018.
12. Governor's Office of Planning and Research. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.
13. Health Effects Institute. *Understanding the Health Effects of Ambient Ultrafine Particles*. January 2013.
14. Intergovernmental Panel on Climate Change. *Climate Change 2021 The Physical Science Basis, Summary for Policymakers*. August 7, 2021.
15. M.S. Zuraimi and Zhongchao Tan. *Impact of residential building regulations on reducing indoor exposures to outdoor PM_{2.5} in Toronto*. March 14, 2015.
16. Muller, Virginia. Legal Assistant II/Clerk of the Hearing Board, Sacramento Metropolitan Air Quality Management District. Personal communication [email] with Briette Shea, Associate/Air Quality Technician, Raney Planning and Management, Inc. July 15, 2021.
17. National Highway Traffic Safety Administration. *In Removing Major Roadblock to State Action on Emissions Standards, U.S. Department of Transportation Advances Biden-Harris Administration's Climate and Jobs Goals*. Available at: <https://www.nhtsa.gov/press-releases/cafe-preemption-final-rule>. Accessed March 2022.
18. Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments*. February 2015.
19. Rachel DuBose, Air Quality Planner and Analyst, Sacramento Metropolitan Air Quality Management District. Personal Communication [phone] with Briette Shea, Associate/Air Quality Technician, Raney Planning and Management, Inc. July 27, 2021.

20. Sacramento County. *Sacramento County General Plan for 2005-2030*. November 9, 2011.
21. Sacramento County. *Transportation Analysis Guidelines*. September 10, 2020.
22. Sacramento Metropolitan Air Quality Management District. *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District*. June 2020.
23. Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment in Sacramento County: Toxic Air Contaminants*. April 2020.
24. Sacramento Metropolitan Air Quality Management District. *Landscaping Guidance for Improving Air Quality Near Roadways: Plant Species and Best Practices for the Sacramento Region, Version 2.0*. May 2020.
25. Sacramento Metropolitan Air Quality Management District. *Mobile Sources Air Toxics Protocol Tool*. Available at: <http://sacramentorisk.azurewebsites.net/>. Accessed July 2021.
26. South Coast Air Quality Management District. *Final 2012 Air Quality Management Plan*. December 2012.
27. U.S. Environmental Protection Agency. *Final Rule to Revise Existing National GHG Emissions Standards for Passenger Cars and Light Trucks Through Model Year 2026*. Available at: <https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-revise-existing-national-ghg-emissions>. Accessed March 2022.
28. U.S. Environmental Protection Agency. *Indoor Air Quality (IAQ): What is a MERV rating?* Available at: <https://www.epa.gov/indoor-air-quality-iaq/what-merv-rating-1>. Accessed June 2023.
29. U.S. Environmental Protection Agency. *Nonattainment and Unclassifiable Area Designations for the 2015 Ozone Standards*. April 30, 2018.
30. U.S. Environmental Protection Agency. *Sources of Greenhouse Gas Emissions*. Available at: <https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions>. Accessed May 2021.
31. U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.
32. W.J. Fisk and W. R. Chan. *Effectiveness and cost of reducing particle-related mortality with particle filtration*. February 1, 2017.

Appendix A

CalEEMod Air Quality and Greenhouse Gas Modeling Results

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Phase 1 Construction
Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	1,252.00	1000sqft	47.90	1,252,000.00	0
Elementary School	850.00	Student	17.00	71,062.86	0
City Park	33.50	Acre	33.50	1,459,260.00	0
Apartments High Rise	816.00	Dwelling Unit	25.10	816,000.00	2179
Apartments Low Rise	404.00	Dwelling Unit	33.70	404,000.00	1079
Apartments Mid Rise	914.00	Dwelling Unit	40.60	914,000.00	2440
Single Family Housing	1,067.00	Dwelling Unit	173.50	1,920,600.00	2849

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	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 - Lot acreages updated based on preliminary land use summary.

Construction Phase - Construction phase timing adjusted based on applicant-provided information.

Off-road Equipment - Architectural coating equipment doubled.

Off-road Equipment - Building construction phase equipment doubled.

Off-road Equipment - Construction equipment updated per engineer information.

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

Off-road Equipment - Construction equipment updated per engineer information.

Off-road Equipment - Number of equipment has been updated.

Grading -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	1,680.00
tblConstructionPhase	NumDays	6,200.00	1,680.00
tblConstructionPhase	NumDays	620.00	60.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	240.00	60.00
tblGrading	AcresOfGrading	1,860.00	390.00
tblGrading	AcresOfGrading	180.00	90.00
tblGrading	MaterialExported	0.00	122,750.00
tblLandUse	LotAcreage	28.74	47.90
tblLandUse	LotAcreage	1.63	17.00
tblLandUse	LotAcreage	13.16	25.10
tblLandUse	LotAcreage	25.25	33.70
tblLandUse	LotAcreage	24.05	40.60
tblLandUse	LotAcreage	346.43	173.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

2.0 Emissions Summary

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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					
2023	1.0461	11.7417	8.7021	0.0240	1.8791	0.4427	2.3218	0.8693	0.4076	1.2769	0.0000	2,165.817 2	2,165.817 2	0.5567	0.0764	2,202.507 9
2024	5.8680	9.0387	15.4022	0.0512	3.5874	0.2211	3.8085	0.9668	0.2083	1.1751	0.0000	4,799.293 4	4,799.293 4	0.2826	0.3146	4,900.120 9
2025	6.5901	9.0860	15.5399	0.0544	4.0187	0.1938	4.2125	1.0829	0.1832	1.2661	0.0000	5,130.544 4	5,130.544 4	0.2625	0.3414	5,238.856 9
2026	6.5195	8.9253	14.9621	0.0531	4.0186	0.1924	4.2110	1.0829	0.1819	1.2647	0.0000	5,031.402 3	5,031.402 3	0.2553	0.3325	5,136.879 5
2027	6.4542	8.7830	14.4686	0.0519	4.0186	0.1909	4.2095	1.0829	0.1805	1.2634	0.0000	4,935.398 4	4,935.398 4	0.2488	0.3240	5,038.160 5
2028	6.3701	8.6317	14.0034	0.0507	4.0031	0.1888	4.1919	1.0787	0.1785	1.2572	0.0000	4,829.200 1	4,829.200 1	0.2423	0.3150	4,929.135 2
2029	6.3367	8.5587	13.7008	0.0498	4.0185	0.1881	4.2066	1.0828	0.1779	1.2607	0.0000	4,767.658 3	4,767.658 3	0.2384	0.3092	4,865.766 1
2030	3.5980	3.9312	7.3650	0.0274	2.2080	0.0436	2.2516	0.5949	0.0425	0.6374	0.0000	2,616.291 3	2,616.291 3	0.0648	0.1652	2,667.135 1
Maximum	6.5901	11.7417	15.5399	0.0544	4.0187	0.4427	4.2125	1.0829	0.4076	1.2769	0.0000	5,130.544 4	5,130.544 4	0.5567	0.3414	5,238.856 9

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.0461	11.7417	8.7021	0.0240	1.8791	0.4427	2.3218	0.8693	0.4076	1.2769	0.0000	2,165.815 2	2,165.815 2	0.5567	0.0764	2,202.506 0
2024	5.8680	9.0387	15.4022	0.0512	3.5874	0.2211	3.8085	0.9668	0.2083	1.1751	0.0000	4,799.292 6	4,799.292 6	0.2826	0.3146	4,900.120 1
2025	6.5901	9.0860	15.5399	0.0544	4.0187	0.1938	4.2125	1.0829	0.1832	1.2661	0.0000	5,130.543 6	5,130.543 6	0.2625	0.3414	5,238.856 1
2026	6.5195	8.9253	14.9621	0.0531	4.0186	0.1924	4.2110	1.0829	0.1819	1.2647	0.0000	5,031.401 5	5,031.401 5	0.2553	0.3325	5,136.878 7
2027	6.4542	8.7830	14.4686	0.0519	4.0186	0.1909	4.2095	1.0829	0.1805	1.2634	0.0000	4,935.397 6	4,935.397 6	0.2488	0.3240	5,038.159 7
2028	6.3701	8.6317	14.0034	0.0507	4.0031	0.1888	4.1919	1.0787	0.1785	1.2572	0.0000	4,829.199 3	4,829.199 3	0.2423	0.3150	4,929.134 4
2029	6.3367	8.5587	13.7008	0.0498	4.0185	0.1881	4.2066	1.0828	0.1779	1.2607	0.0000	4,767.657 5	4,767.657 5	0.2384	0.3092	4,865.765 3
2030	3.5980	3.9312	7.3650	0.0274	2.2080	0.0436	2.2516	0.5949	0.0425	0.6374	0.0000	2,616.290 8	2,616.290 8	0.0648	0.1652	2,667.134 6
Maximum	6.5901	11.7417	15.5399	0.0544	4.0187	0.4427	4.2125	1.0829	0.4076	1.2769	0.0000	5,130.543 6	5,130.543 6	0.5567	0.3414	5,238.856 1

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	2.7888	2.7888
2	9-1-2023	11-30-2023	9.5219	9.5219
3	12-1-2023	2-29-2024	1.8050	1.8050

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

4	3-1-2024	5-31-2024	4.0930	4.0930
5	6-1-2024	8-31-2024	4.0643	4.0643
6	9-1-2024	11-30-2024	4.0765	4.0765
7	12-1-2024	2-28-2025	3.9667	3.9667
8	3-1-2025	5-31-2025	3.9506	3.9506
9	6-1-2025	8-31-2025	3.9228	3.9228
10	9-1-2025	11-30-2025	3.9348	3.9348
11	12-1-2025	2-28-2026	3.8792	3.8792
12	3-1-2026	5-31-2026	3.8912	3.8912
13	6-1-2026	8-31-2026	3.8641	3.8641
14	9-1-2026	11-30-2026	3.8754	3.8754
15	12-1-2026	2-28-2027	3.8239	3.8239
16	3-1-2027	5-31-2027	3.8379	3.8379
17	6-1-2027	8-31-2027	3.8114	3.8114
18	9-1-2027	11-30-2027	3.8221	3.8221
19	12-1-2027	2-29-2028	3.8174	3.8174
20	3-1-2028	5-31-2028	3.7921	3.7921
21	6-1-2028	8-31-2028	3.7661	3.7661
22	9-1-2028	11-30-2028	3.7764	3.7764
23	12-1-2028	2-28-2029	3.7323	3.7323
24	3-1-2029	5-31-2029	3.7497	3.7497
25	6-1-2029	8-31-2029	3.7239	3.7239
26	9-1-2029	11-30-2029	3.7342	3.7342
27	12-1-2029	2-28-2030	3.4852	3.4852
28	3-1-2030	5-31-2030	3.3873	3.3873
29	6-1-2030	8-31-2030	1.9239	1.9239
		Highest	9.5219	9.5219

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Area	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Energy	0.3619	3.1544	1.7665	0.0197		0.2501	0.2501		0.2501	0.2501	0.0000	9,571.6532	9,571.6532	0.6208	0.1326	9,626.6873
Mobile	9.0125	10.7792	95.4797	0.2015	29.2695	0.0970	29.3665	7.8141	0.0908	7.9049	0.0000	20,537.1235	20,537.1235	1.3004	0.9455	20,851.3887
Waste						0.0000	0.0000		0.0000	0.0000	675.8889	0.0000	675.8889	39.9439	0.0000	1,674.4860
Water						0.0000	0.0000		0.0000	0.0000	153.2461	528.3668	681.6129	0.5762	0.3392	797.0879
Total	34.5264	14.3132	130.1391	0.2230	29.2695	0.5302	29.7997	7.8141	0.5240	8.3381	829.1349	30,691.1191	31,520.2540	42.4927	1.4173	33,004.9120

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Energy	0.3619	3.1544	1.7665	0.0197		0.2501	0.2501		0.2501	0.2501	0.0000	9,571.6532	9,571.6532	0.6208	0.1326	9,626.6873
Mobile	9.0125	10.7792	95.4797	0.2015	29.2695	0.0970	29.3665	7.8141	0.0908	7.9049	0.0000	20,537.1235	20,537.1235	1.3004	0.9455	20,851.3887
Waste						0.0000	0.0000		0.0000	0.0000	675.8889	0.0000	675.8889	39.9439	0.0000	1,674.4860
Water						0.0000	0.0000		0.0000	0.0000	153.2461	528.3668	681.6129	0.5762	0.3392	797.0879
Total	34.5264	14.3132	130.1391	0.2230	29.2695	0.5302	29.7997	7.8141	0.5240	8.3381	829.1349	30,691.1191	31,520.2540	42.4927	1.4173	33,004.9120

	ROG	NOx	CO	SO2	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	6/1/2023	8/23/2023	5	60	
2	Grading	Grading	8/24/2023	11/15/2023	5	60	
3	Paving	Paving	11/16/2023	2/7/2024	5	60	

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

4	Building Construction	Building Construction	2/8/2024	7/17/2030	5	1680
5	Architectural Coating	Architectural Coating	2/22/2024	7/31/2030	5	1680

Acres of Grading (Site Preparation Phase): 90**Acres of Grading (Grading Phase): 390****Acres of Paving: 0****Residential Indoor: 8,210,565; Residential Outdoor: 2,736,855; Non-Residential Indoor: 1,984,594; Non-Residential Outdoor: 661,531; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Excavators	8	8.00	158	0.38
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	6.00	78	0.48

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	14	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	40	100.00	0.00	15,344.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	24	60.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	2,964.00	798.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	593.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1317	0.0000	1.1317	0.6010	0.0000	0.6010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1596	1.6515	1.0947	2.2800e-003		0.0760	0.0760		0.0699	0.0699	0.0000	200.7042	200.7042	0.0649	0.0000	202.3270
Total	0.1596	1.6515	1.0947	2.2800e-003	1.1317	0.0760	1.2077	0.6010	0.0699	0.6709	0.0000	200.7042	200.7042	0.0649	0.0000	202.3270

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0100e-003	1.8600e-003	0.0245	7.0000e-005	7.7100e-003	4.0000e-005	7.7500e-003	2.0500e-003	4.0000e-005	2.0900e-003	0.0000	6.1864	6.1864	2.0000e-004	1.8000e-004	6.2440
Total	3.0100e-003	1.8600e-003	0.0245	7.0000e-005	7.7100e-003	4.0000e-005	7.7500e-003	2.0500e-003	4.0000e-005	2.0900e-003	0.0000	6.1864	6.1864	2.0000e-004	1.8000e-004	6.2440

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					1.1317	0.0000	1.1317	0.6010	0.0000	0.6010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1596	1.6515	1.0947	2.2800e-003		0.0760	0.0760		0.0699	0.0699	0.0000	200.7039	200.7039	0.0649	0.0000	202.3267
Total	0.1596	1.6515	1.0947	2.2800e-003	1.1317	0.0760	1.2077	0.6010	0.0699	0.6709	0.0000	200.7039	200.7039	0.0649	0.0000	202.3267

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0100e-003	1.8600e-003	0.0245	7.0000e-005	7.7100e-003	4.0000e-005	7.7500e-003	2.0500e-003	4.0000e-005	2.0900e-003	0.0000	6.1864	6.1864	2.0000e-004	1.8000e-004	6.2440
Total	3.0100e-003	1.8600e-003	0.0245	7.0000e-005	7.7100e-003	4.0000e-005	7.7500e-003	2.0500e-003	4.0000e-005	2.0900e-003	0.0000	6.1864	6.1864	2.0000e-004	1.8000e-004	6.2440

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5808	0.0000	0.5808	0.2229	0.0000	0.2229	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7848	8.2374	6.2189	0.0150		0.3268	0.3268		0.3006	0.3006	0.0000	1,319.2625	1,319.2625	0.4267	0.0000	1,329.9294
Total	0.7848	8.2374	6.2189	0.0150	0.5808	0.3268	0.9076	0.2229	0.3006	0.5235	0.0000	1,319.2625	1,319.2625	0.4267	0.0000	1,329.9294

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.3 Grading - 2023

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	0.0204	1.2213	0.2453	4.8100e-003	0.1298	8.9100e-003	0.1387	0.0357	8.5200e-003	0.0442	0.0000	476.6650	476.6650	0.0190	0.0756	499.6620
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	8.6100e-003	5.3200e-003	0.0699	1.9000e-004	0.0220	1.2000e-004	0.0222	5.8600e-003	1.1000e-004	5.9700e-003	0.0000	17.6754	17.6754	5.6000e-004	5.1000e-004	17.8400
Total	0.0290	1.2267	0.3152	5.0000e-003	0.1518	9.0300e-003	0.1608	0.0415	8.6300e-003	0.0501	0.0000	494.3404	494.3404	0.0195	0.0761	517.5020

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					0.5808	0.0000	0.5808	0.2229	0.0000	0.2229	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7848	8.2374	6.2189	0.0150		0.3268	0.3268		0.3006	0.3006	0.0000	1,319.2609	1,319.2609	0.4267	0.0000	1,329.9278
Total	0.7848	8.2374	6.2189	0.0150	0.5808	0.3268	0.9076	0.2229	0.3006	0.5235	0.0000	1,319.2609	1,319.2609	0.4267	0.0000	1,329.9278

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.3 Grading - 2023

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	0.0204	1.2213	0.2453	4.8100e-003	0.1298	8.9100e-003	0.1387	0.0357	8.5200e-003	0.0442	0.0000	476.6650	476.6650	0.0190	0.0756	499.6620
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	8.6100e-003	5.3200e-003	0.0699	1.9000e-004	0.0220	1.2000e-004	0.0222	5.8600e-003	1.1000e-004	5.9700e-003	0.0000	17.6754	17.6754	5.6000e-004	5.1000e-004	17.8400
Total	0.0290	1.2267	0.3152	5.0000e-003	0.1518	9.0300e-003	0.1608	0.0415	8.6300e-003	0.0501	0.0000	494.3404	494.3404	0.0195	0.0761	517.5020

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0669	0.6226	1.0265	1.5900e-003		0.0309	0.0309		0.0284	0.0284	0.0000	139.6675	139.6675	0.0452	0.0000	140.7968
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0669	0.6226	1.0265	1.5900e-003		0.0309	0.0309		0.0284	0.0284	0.0000	139.6675	139.6675	0.0452	0.0000	140.7968

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.7000e-003	0.0224	6.0000e-005	7.0500e-003	4.0000e-005	7.0900e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	5.6561	5.6561	1.8000e-004	1.6000e-004	5.7088
Total	2.7500e-003	1.7000e-003	0.0224	6.0000e-005	7.0500e-003	4.0000e-005	7.0900e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	5.6561	5.6561	1.8000e-004	1.6000e-004	5.7088

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	0.0669	0.6226	1.0265	1.5900e-003		0.0309	0.0309		0.0284	0.0284	0.0000	139.6674	139.6674	0.0452	0.0000	140.7967
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0669	0.6226	1.0265	1.5900e-003		0.0309	0.0309		0.0284	0.0284	0.0000	139.6674	139.6674	0.0452	0.0000	140.7967

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.7000e-003	0.0224	6.0000e-005	7.0500e-003	4.0000e-005	7.0900e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	5.6561	5.6561	1.8000e-004	1.6000e-004	5.7088
Total	2.7500e-003	1.7000e-003	0.0224	6.0000e-005	7.0500e-003	4.0000e-005	7.0900e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	5.6561	5.6561	1.8000e-004	1.6000e-004	5.7088

3.4 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0559	0.5049	0.9004	1.3900e-003		0.0246	0.0246		0.0226	0.0226	0.0000	122.2341	122.2341	0.0395	0.0000	123.2224
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0559	0.5049	0.9004	1.3900e-003		0.0246	0.0246		0.0226	0.0226	0.0000	122.2341	122.2341	0.0395	0.0000	123.2224

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.4 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2500e-003	1.3300e-003	0.0182	5.0000e-005	6.1700e-003	3.0000e-005	6.2000e-003	1.6400e-003	3.0000e-005	1.6700e-003	0.0000	4.8256	4.8256	1.4000e-004	1.3000e-004	4.8683
Total	2.2500e-003	1.3300e-003	0.0182	5.0000e-005	6.1700e-003	3.0000e-005	6.2000e-003	1.6400e-003	3.0000e-005	1.6700e-003	0.0000	4.8256	4.8256	1.4000e-004	1.3000e-004	4.8683

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	0.0559	0.5049	0.9004	1.3900e-003		0.0246	0.0246		0.0226	0.0226	0.0000	122.2339	122.2339	0.0395	0.0000	123.2222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0559	0.5049	0.9004	1.3900e-003		0.0246	0.0246		0.0226	0.0226	0.0000	122.2339	122.2339	0.0395	0.0000	123.2222

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.4 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2500e-003	1.3300e-003	0.0182	5.0000e-005	6.1700e-003	3.0000e-005	6.2000e-003	1.6400e-003	3.0000e-005	1.6700e-003	0.0000	4.8256	4.8256	1.4000e-004	1.3000e-004	4.8683
Total	2.2500e-003	1.3300e-003	0.0182	5.0000e-005	6.1700e-003	3.0000e-005	6.2000e-003	1.6400e-003	3.0000e-005	1.6700e-003	0.0000	4.8256	4.8256	1.4000e-004	1.3000e-004	4.8683

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3444	3.1458	3.7830	6.3100e-003		0.1435	0.1435		0.1350	0.1350	0.0000	542.5269	542.5269	0.1283	0.0000	545.7342
Total	0.3444	3.1458	3.7830	6.3100e-003		0.1435	0.1435		0.1350	0.1350	0.0000	542.5269	542.5269	0.1283	0.0000	545.7342

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****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	0.1164	4.4610	1.3294	0.0175	0.5465	0.0239	0.5704	0.1580	0.0229	0.1808	0.0000	1,698.764 5	1,698.764 5	0.0415	0.2498	1,774.247 1
Worker	0.9301	0.5477	7.5246	0.0213	2.5469	0.0130	2.5599	0.6774	0.0119	0.6893	0.0000	1,992.206 8	1,992.206 8	0.0586	0.0543	2,009.853 2
Total	1.0465	5.0087	8.8540	0.0387	3.0934	0.0368	3.1303	0.8354	0.0348	0.8702	0.0000	3,690.971 4	3,690.971 4	0.1001	0.3041	3,784.100 4

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	0.3444	3.1458	3.7830	6.3100e-003		0.1435	0.1435		0.1350	0.1350	0.0000	542.5263	542.5263	0.1283	0.0000	545.7336
Total	0.3444	3.1458	3.7830	6.3100e-003		0.1435	0.1435		0.1350	0.1350	0.0000	542.5263	542.5263	0.1283	0.0000	545.7336

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****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	0.1164	4.4610	1.3294	0.0175	0.5465	0.0239	0.5704	0.1580	0.0229	0.1808	0.0000	1,698.764 5	1,698.764 5	0.0415	0.2498	1,774.247 1
Worker	0.9301	0.5477	7.5246	0.0213	2.5469	0.0130	2.5599	0.6774	0.0119	0.6893	0.0000	1,992.206 8	1,992.206 8	0.0586	0.0543	2,009.853 2
Total	1.0465	5.0087	8.8540	0.0387	3.0934	0.0368	3.1303	0.8354	0.0348	0.8702	0.0000	3,690.971 4	3,690.971 4	0.1001	0.3041	3,784.100 4

3.5 Building Construction - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2025

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	0.1252	4.8746	1.4480	0.0191	0.6095	0.0261	0.6356	0.1762	0.0250	0.2012	0.0000	1,856.4428	1,856.4428	0.0453	0.2735	1,939.0786
Worker	0.9743	0.5481	7.8508	0.0229	2.8408	0.0138	2.8546	0.7556	0.0127	0.7683	0.0000	2,168.3379	2,168.3379	0.0594	0.0566	2,186.6941
Total	1.0995	5.4227	9.2989	0.0420	3.4503	0.0399	3.4902	0.9317	0.0377	0.9694	0.0000	4,024.7808	4,024.7808	0.1047	0.3301	4,125.7727

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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2025****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	0.1252	4.8746	1.4480	0.0191	0.6095	0.0261	0.6356	0.1762	0.0250	0.2012	0.0000	1,856.442 8	1,856.442 8	0.0453	0.2735	1,939.078 6
Worker	0.9743	0.5481	7.8508	0.0229	2.8408	0.0138	2.8546	0.7556	0.0127	0.7683	0.0000	2,168.337 9	2,168.337 9	0.0594	0.0566	2,186.694 1
Total	1.0995	5.4227	9.2989	0.0420	3.4503	0.0399	3.4902	0.9317	0.0377	0.9694	0.0000	4,024.780 8	4,024.780 8	0.1047	0.3301	4,125.772 7

3.5 Building Construction - 2026**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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2026****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	0.1208	4.7756	1.4193	0.0187	0.6094	0.0255	0.6349	0.1762	0.0244	0.2005	0.0000	1,819.088 6	1,819.088 6	0.0443	0.2685	1,900.215 9
Worker	0.9191	0.4968	7.3934	0.0222	2.8408	0.0132	2.8540	0.7556	0.0121	0.7677	0.0000	2,116.851 0	2,116.851 0	0.0542	0.0533	2,134.101 5
Total	1.0399	5.2723	8.8127	0.0409	3.4503	0.0386	3.4889	0.9317	0.0365	0.9682	0.0000	3,935.939 6	3,935.939 6	0.0985	0.3219	4,034.317 4

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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2026****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	0.1208	4.7756	1.4193	0.0187	0.6094	0.0255	0.6349	0.1762	0.0244	0.2005	0.0000	1,819.0886	1,819.0886	0.0443	0.2685	1,900.2159
Worker	0.9191	0.4968	7.3934	0.0222	2.8408	0.0132	2.8540	0.7556	0.0121	0.7677	0.0000	2,116.8510	2,116.8510	0.0542	0.0533	2,134.1015
Total	1.0399	5.2723	8.8127	0.0409	3.4503	0.0386	3.4889	0.9317	0.0365	0.9682	0.0000	3,935.9396	3,935.9396	0.0985	0.3219	4,034.3174

3.5 Building Construction - 2027**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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2027****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	0.1169	4.6848	1.3947	0.0183	0.6094	0.0249	0.6342	0.1761	0.0238	0.1999	0.0000	1,780.089 2	1,780.089 2	0.0432	0.2633	1,859.618 8
Worker	0.8680	0.4538	7.0026	0.0216	2.8408	0.0125	2.8533	0.7556	0.0115	0.7670	0.0000	2,069.349 9	2,069.349 9	0.0497	0.0506	2,085.669 3
Total	0.9849	5.1386	8.3973	0.0398	3.4502	0.0373	3.4875	0.9317	0.0353	0.9669	0.0000	3,849.439 1	3,849.439 1	0.0929	0.3138	3,945.288 1

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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2027****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	0.1169	4.6848	1.3947	0.0183	0.6094	0.0249	0.6342	0.1761	0.0238	0.1999	0.0000	1,780.089 2	1,780.089 2	0.0432	0.2633	1,859.618 8
Worker	0.8680	0.4538	7.0026	0.0216	2.8408	0.0125	2.8533	0.7556	0.0115	0.7670	0.0000	2,069.349 9	2,069.349 9	0.0497	0.0506	2,085.669 3
Total	0.9849	5.1386	8.3973	0.0398	3.4502	0.0373	3.4875	0.9317	0.0353	0.9669	0.0000	3,849.439 1	3,849.439 1	0.0929	0.3138	3,945.288 1

3.5 Building Construction - 2028**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	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9906	602.9906	0.1417	0.0000	606.5342
Total	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9906	602.9906	0.1417	0.0000	606.5342

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2028****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	0.1130	4.5916	1.3697	0.0178	0.6070	0.0243	0.6312	0.1754	0.0232	0.1986	0.0000	1,736.856 3	1,736.856 3	0.0422	0.2573	1,814.576 0
Worker	0.8181	0.4168	6.6508	0.0209	2.8299	0.0116	2.8416	0.7527	0.0107	0.7634	0.0000	2,019.027 1	2,019.027 1	0.0456	0.0481	2,034.510 5
Total	0.9310	5.0084	8.0205	0.0387	3.4369	0.0359	3.4728	0.9281	0.0339	0.9620	0.0000	3,755.883 3	3,755.883 3	0.0878	0.3054	3,849.086 5

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	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9899	602.9899	0.1417	0.0000	606.5335
Total	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9899	602.9899	0.1417	0.0000	606.5335

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2028****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	0.1130	4.5916	1.3697	0.0178	0.6070	0.0243	0.6312	0.1754	0.0232	0.1986	0.0000	1,736.856 3	1,736.856 3	0.0422	0.2573	1,814.576 0
Worker	0.8181	0.4168	6.6508	0.0209	2.8299	0.0116	2.8416	0.7527	0.0107	0.7634	0.0000	2,019.027 1	2,019.027 1	0.0456	0.0481	2,034.510 5
Total	0.9310	5.0084	8.0205	0.0387	3.4369	0.0359	3.4728	0.9281	0.0339	0.9620	0.0000	3,755.883 3	3,755.883 3	0.0878	0.3054	3,849.086 5

3.5 Building Construction - 2029**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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****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	0.1102	4.5389	1.3578	0.0175	0.6093	0.0238	0.6331	0.1761	0.0228	0.1989	0.0000	1,709.328 0	1,709.328 0	0.0416	0.2535	1,785.923 5
Worker	0.7756	0.3884	6.3936	0.0204	2.8408	0.0110	2.8518	0.7556	0.0101	0.7657	0.0000	1,988.538 7	1,988.538 7	0.0424	0.0464	2,003.424 7
Total	0.8858	4.9274	7.7514	0.0380	3.4501	0.0348	3.4849	0.9317	0.0329	0.9646	0.0000	3,697.866 7	3,697.866 7	0.0840	0.2999	3,789.348 2

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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****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	0.1102	4.5389	1.3578	0.0175	0.6093	0.0238	0.6331	0.1761	0.0228	0.1989	0.0000	1,709.328 0	1,709.328 0	0.0416	0.2535	1,785.923 5
Worker	0.7756	0.3884	6.3936	0.0204	2.8408	0.0110	2.8518	0.7556	0.0101	0.7657	0.0000	1,988.538 7	1,988.538 7	0.0424	0.0464	2,003.424 7
Total	0.8858	4.9274	7.7514	0.0380	3.4501	0.0348	3.4849	0.9317	0.0329	0.9646	0.0000	3,697.866 7	3,697.866 7	0.0840	0.2999	3,789.348 2

3.5 Building Construction - 2030**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	0.1859	1.1267	2.2943	4.4000e-003		0.0210	0.0210		0.0210	0.0210	0.0000	373.2627	373.2627	0.0150	0.0000	373.6370
Total	0.1859	1.1267	2.2943	4.4000e-003		0.0210	0.0210		0.0210	0.0210	0.0000	373.2627	373.2627	0.0150	0.0000	373.6370

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2030****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	0.0584	2.4343	0.7313	9.3600e-003	0.3315	0.0127	0.3442	0.0958	0.0122	0.1080	0.0000	912.8827	912.8827	0.0223	0.1356	953.8443
Worker	0.3983	0.1976	3.3490	0.0108	1.5456	5.5800e-003	1.5512	0.4111	5.1300e-003	0.4162	0.0000	1,063.5665	1,063.5665	0.0214	0.0244	1,071.3650
Total	0.4566	2.6320	4.0802	0.0202	1.8770	0.0183	1.8953	0.5069	0.0173	0.5242	0.0000	1,976.4493	1,976.4493	0.0437	0.1600	2,025.2093

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	0.1859	1.1267	2.2943	4.4000e-003		0.0210	0.0210		0.0210	0.0210	0.0000	373.2622	373.2622	0.0150	0.0000	373.6366
Total	0.1859	1.1267	2.2943	4.4000e-003		0.0210	0.0210		0.0210	0.0210	0.0000	373.2622	373.2622	0.0150	0.0000	373.6366

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2030

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	0.0584	2.4343	0.7313	9.3600e-003	0.3315	0.0127	0.3442	0.0958	0.0122	0.1080	0.0000	912.8827	912.8827	0.0223	0.1356	953.8443
Worker	0.3983	0.1976	3.3490	0.0108	1.5456	5.5800e-003	1.5512	0.4111	5.1300e-003	0.4162	0.0000	1,063.5665	1,063.5665	0.0214	0.0244	1,071.3650
Total	0.4566	2.6320	4.0802	0.0202	1.8770	0.0183	1.8953	0.5069	0.0173	0.5242	0.0000	1,976.4493	1,976.4493	0.0437	0.1600	2,025.2093

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.2004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.2730	0.4055	6.7000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	57.1929	57.1929	3.2200e-003	0.0000	57.2734
Total	4.2409	0.2730	0.4055	6.7000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	57.1929	57.1929	3.2200e-003	0.0000	57.2734

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1781	0.1049	1.4411	4.0800e-003	0.4878	2.4800e-003	0.4903	0.1297	2.2800e-003	0.1320	0.0000	381.5426	381.5426	0.0112	0.0104	384.9222
Total	0.1781	0.1049	1.4411	4.0800e-003	0.4878	2.4800e-003	0.4903	0.1297	2.2800e-003	0.1320	0.0000	381.5426	381.5426	0.0112	0.0104	384.9222

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	4.2004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.2730	0.4055	6.7000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	57.1928	57.1928	3.2200e-003	0.0000	57.2733
Total	4.2409	0.2730	0.4055	6.7000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	57.1928	57.1928	3.2200e-003	0.0000	57.2733

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1781	0.1049	1.4411	4.0800e-003	0.4878	2.4800e-003	0.4903	0.1297	2.2800e-003	0.1320	0.0000	381.5426	381.5426	0.0112	0.0104	384.9222
Total	0.1781	0.1049	1.4411	4.0800e-003	0.4878	2.4800e-003	0.4903	0.1297	2.2800e-003	0.1320	0.0000	381.5426	381.5426	0.0112	0.0104	384.9222

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1949	0.1097	1.5707	4.5900e-003	0.5684	2.7600e-003	0.5711	0.1512	2.5400e-003	0.1537	0.0000	433.8139	433.8139	0.0119	0.0113	437.4864
Total	0.1949	0.1097	1.5707	4.5900e-003	0.5684	2.7600e-003	0.5711	0.1512	2.5400e-003	0.1537	0.0000	433.8139	433.8139	0.0119	0.0113	437.4864

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1949	0.1097	1.5707	4.5900e-003	0.5684	2.7600e-003	0.5711	0.1512	2.5400e-003	0.1537	0.0000	433.8139	433.8139	0.0119	0.0113	437.4864
Total	0.1949	0.1097	1.5707	4.5900e-003	0.5684	2.7600e-003	0.5711	0.1512	2.5400e-003	0.1537	0.0000	433.8139	433.8139	0.0119	0.0113	437.4864

3.6 Architectural Coating - 2026**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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1839	0.0994	1.4792	4.4400e-003	0.5684	2.6300e-003	0.5710	0.1512	2.4200e-003	0.1536	0.0000	423.5130	423.5130	0.0109	0.0107	426.9643
Total	0.1839	0.0994	1.4792	4.4400e-003	0.5684	2.6300e-003	0.5710	0.1512	2.4200e-003	0.1536	0.0000	423.5130	423.5130	0.0109	0.0107	426.9643

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1839	0.0994	1.4792	4.4400e-003	0.5684	2.6300e-003	0.5710	0.1512	2.4200e-003	0.1536	0.0000	423.5130	423.5130	0.0109	0.0107	426.9643
Total	0.1839	0.0994	1.4792	4.4400e-003	0.5684	2.6300e-003	0.5710	0.1512	2.4200e-003	0.1536	0.0000	423.5130	423.5130	0.0109	0.0107	426.9643

3.6 Architectural Coating - 2027**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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2027****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1737	0.0908	1.4010	4.3100e-003	0.5684	2.4900e-003	0.5709	0.1512	2.2900e-003	0.1535	0.0000	414.0096	414.0096	9.9400e-003	0.0101	417.2746
Total	0.1737	0.0908	1.4010	4.3100e-003	0.5684	2.4900e-003	0.5709	0.1512	2.2900e-003	0.1535	0.0000	414.0096	414.0096	9.9400e-003	0.0101	417.2746

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1737	0.0908	1.4010	4.3100e-003	0.5684	2.4900e-003	0.5709	0.1512	2.2900e-003	0.1535	0.0000	414.0096	414.0096	9.9400e-003	0.0101	417.2746
Total	0.1737	0.0908	1.4010	4.3100e-003	0.5684	2.4900e-003	0.5709	0.1512	2.2900e-003	0.1535	0.0000	414.0096	414.0096	9.9400e-003	0.0101	417.2746

3.6 Architectural Coating - 2028

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	4.8755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3846	66.3846	3.6200e-003	0.0000	66.4751
Total	4.9199	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3846	66.3846	3.6200e-003	0.0000	66.4751

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1637	0.0834	1.3306	4.1800e-003	0.5662	2.3300e-003	0.5685	0.1506	2.1400e-003	0.1527	0.0000	403.9417	403.9417	9.1300e-003	9.6300e-003	407.0394
Total	0.1637	0.0834	1.3306	4.1800e-003	0.5662	2.3300e-003	0.5685	0.1506	2.1400e-003	0.1527	0.0000	403.9417	403.9417	9.1300e-003	9.6300e-003	407.0394

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	4.8755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3845	66.3845	3.6200e-003	0.0000	66.4751
Total	4.9199	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3845	66.3845	3.6200e-003	0.0000	66.4751

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Architectural Coating - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1637	0.0834	1.3306	4.1800e-003	0.5662	2.3300e-003	0.5685	0.1506	2.1400e-003	0.1527	0.0000	403.9417	403.9417	9.1300e-003	9.6300e-003	407.0394
Total	0.1637	0.0834	1.3306	4.1800e-003	0.5662	2.3300e-003	0.5685	0.1506	2.1400e-003	0.1527	0.0000	403.9417	403.9417	9.1300e-003	9.6300e-003	407.0394

3.6 Architectural Coating - 2029

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1552	0.0777	1.2792	4.0800e-003	0.5684	2.1900e-003	0.5706	0.1512	2.0200e-003	0.1532	0.0000	397.8419	397.8419	8.4800e-003	9.2800e-003	400.8201
Total	0.1552	0.0777	1.2792	4.0800e-003	0.5684	2.1900e-003	0.5706	0.1512	2.0200e-003	0.1532	0.0000	397.8419	397.8419	8.4800e-003	9.2800e-003	400.8201

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1552	0.0777	1.2792	4.0800e-003	0.5684	2.1900e-003	0.5706	0.1512	2.0200e-003	0.1532	0.0000	397.8419	397.8419	8.4800e-003	9.2800e-003	400.8201
Total	0.1552	0.0777	1.2792	4.0800e-003	0.5684	2.1900e-003	0.5706	0.1512	2.0200e-003	0.1532	0.0000	397.8419	397.8419	8.4800e-003	9.2800e-003	400.8201

3.6 Architectural Coating - 2030

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	2.8503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1302	0.2733	4.5000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	38.8095	38.8095	1.5700e-003	0.0000	38.8487
Total	2.8702	0.1302	0.2733	4.5000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	38.8095	38.8095	1.5700e-003	0.0000	38.8487

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0853	0.0423	0.7172	2.3200e-003	0.3310	1.1900e-003	0.3322	0.0880	1.1000e-003	0.0891	0.0000	227.7699	227.7699	4.5800e-003	5.2200e-003	229.4400
Total	0.0853	0.0423	0.7172	2.3200e-003	0.3310	1.1900e-003	0.3322	0.0880	1.1000e-003	0.0891	0.0000	227.7699	227.7699	4.5800e-003	5.2200e-003	229.4400

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	2.8503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1302	0.2733	4.5000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	38.8094	38.8094	1.5700e-003	0.0000	38.8487
Total	2.8702	0.1302	0.2733	4.5000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	38.8094	38.8094	1.5700e-003	0.0000	38.8487

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0853	0.0423	0.7172	2.3200e-003	0.3310	1.1900e-003	0.3322	0.0880	1.1000e-003	0.0891	0.0000	227.7699	227.7699	4.5800e-003	5.2200e-003	229.4400
Total	0.0853	0.0423	0.7172	2.3200e-003	0.3310	1.1900e-003	0.3322	0.0880	1.1000e-003	0.0891	0.0000	227.7699	227.7699	4.5800e-003	5.2200e-003	229.4400

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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	9.0125	10.7792	95.4797	0.2015	29.2695	0.0970	29.3665	7.8141	0.0908	7.9049	0.0000	20,537.1235	20,537.1235	1.3004	0.9455	20,851.3887
Unmitigated	9.0125	10.7792	95.4797	0.2015	29.2695	0.0970	29.3665	7.8141	0.0908	7.9049	0.0000	20,537.1235	20,537.1235	1.3004	0.9455	20,851.3887

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,631.20	3,696.48	2929.44	9,084,730	9,084,730
Apartments Low Rise	2,957.28	3,288.56	2537.12	7,556,121	7,556,121
Apartments Mid Rise	4,972.16	4,487.74	3738.26	12,129,191	12,129,191
City Park	26.13	65.66	73.37	71,077	71,077
Elementary School	1,606.50	0.00	0.00	2,413,021	2,413,021
Office Park	13,859.64	2,053.28	951.52	22,369,655	22,369,655
Single Family Housing	10,072.48	10,179.18	9122.85	25,538,074	25,538,074
Total	37,125.39	23,770.90	19,352.56	79,161,869	79,161,869

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Low Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
City Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Elementary School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Office Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,989.6443	5,989.6443	0.5522	0.0669	6,023.3923
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,989.6443	5,989.6443	0.5522	0.0669	6,023.3923
NaturalGas Mitigated	0.3619	3.1544	1.7665	0.0197		0.2501	0.2501		0.2501	0.2501	0.0000	3,582.0089	3,582.0089	0.0687	0.0657	3,603.2950
NaturalGas Unmitigated	0.3619	3.1544	1.7665	0.0197		0.2501	0.2501		0.2501	0.2501	0.0000	3,582.0089	3,582.0089	0.0687	0.0657	3,603.2950

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Apartments High Rise	7.68364e+006	0.0414	0.3541	0.1507	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	410.0285	410.0285	7.8600e-003	7.5200e-003	412.4651
Apartments Low Rise	4.70917e+006	0.0254	0.2170	0.0923	1.3900e-003		0.0175	0.0175		0.0175	0.0175	0.0000	251.2994	251.2994	4.8200e-003	4.6100e-003	252.7928
Apartments Mid Rise	8.60643e+006	0.0464	0.3966	0.1688	2.5300e-003		0.0321	0.0321		0.0321	0.0321	0.0000	459.2721	459.2721	8.8000e-003	8.4200e-003	462.0013
City Park	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
Elementary School	1.07447e+006	5.7900e-003	0.0527	0.0442	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	57.3378	57.3378	1.1000e-003	1.0500e-003	57.6786
Office Park	1.98066e+007	0.1068	0.9709	0.8156	5.8300e-003		0.0738	0.0738		0.0738	0.0738	0.0000	1,056.9577	1,056.9577	0.0203	0.0194	1,063.2387
Single Family Housing	2.5244e+007	0.1361	1.1632	0.4950	7.4200e-003		0.0941	0.0941		0.0941	0.0941	0.0000	1,347.1133	1,347.1133	0.0258	0.0247	1,355.1185
Total		0.3619	3.1544	1.7665	0.0198		0.2501	0.2501		0.2501	0.2501	0.0000	3,582.0089	3,582.0089	0.0687	0.0657	3,603.2950

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Apartments High Rise	7.68364e+006	0.0414	0.3541	0.1507	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	410.0285	410.0285	7.8600e-003	7.5200e-003	412.4651
Apartments Low Rise	4.70917e+006	0.0254	0.2170	0.0923	1.3900e-003		0.0175	0.0175		0.0175	0.0175	0.0000	251.2994	251.2994	4.8200e-003	4.6100e-003	252.7928
Apartments Mid Rise	8.60643e+006	0.0464	0.3966	0.1688	2.5300e-003		0.0321	0.0321		0.0321	0.0321	0.0000	459.2721	459.2721	8.8000e-003	8.4200e-003	462.0013
City Park	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
Elementary School	1.07447e+006	5.7900e-003	0.0527	0.0442	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	57.3378	57.3378	1.1000e-003	1.0500e-003	57.6786
Office Park	1.98066e+007	0.1068	0.9709	0.8156	5.8300e-003		0.0738	0.0738		0.0738	0.0738	0.0000	1,056.9577	1,056.9577	0.0203	0.0194	1,063.2387
Single Family Housing	2.5244e+007	0.1361	1.1632	0.4950	7.4200e-003		0.0941	0.0941		0.0941	0.0941	0.0000	1,347.1133	1,347.1133	0.0258	0.0247	1,355.1185
Total		0.3619	3.1544	1.7665	0.0198		0.2501	0.2501		0.2501	0.2501	0.0000	3,582.0089	3,582.0089	0.0687	0.0657	3,603.2950

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments High Rise	3.17728e +006	515.9165	0.0476	5.7600e- 003	518.8233
Apartments Low Rise	1.65316e +006	268.4358	0.0248	3.0000e- 003	269.9483
Apartments Mid Rise	3.55886e +006	577.8770	0.0533	6.4600e- 003	581.1330
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	504546	81.9267	7.5500e- 003	9.2000e- 004	82.3883
Office Park	1.95562e +007	3,175.483 5	0.2927	0.0355	3,193.375 4
Single Family Housing	8.43719e +006	1,370.004 8	0.1263	0.0153	1,377.723 9
Total		5,989.644 3	0.5522	0.0669	6,023.392 3

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments High Rise	3.17728e +006	515.9165	0.0476	5.7600e- 003	518.8233
Apartments Low Rise	1.65316e +006	268.4358	0.0248	3.0000e- 003	269.9483
Apartments Mid Rise	3.55886e +006	577.8770	0.0533	6.4600e- 003	581.1330
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	504546	81.9267	7.5500e- 003	9.2000e- 004	82.3883
Office Park	1.95562e +007	3,175.483 5	0.2927	0.0355	3,193.375 4
Single Family Housing	8.43719e +006	1,370.004 8	0.1263	0.0153	1,377.723 9
Total		5,989.644 3	0.5522	0.0669	6,023.392 3

6.0 Area Detail**6.1 Mitigation Measures Area**

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Unmitigated	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622

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	3.1503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9855	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Total	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Architectural Coating	3.1503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9855	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Total	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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	681.6129	0.5762	0.3392	797.0879
Unmitigated	681.6129	0.5762	0.3392	797.0879

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	53.1657 / 33.5175	80.8730	0.0705	0.0416	95.0311
Apartments Low Rise	26.3222 / 16.5944	40.0400	0.0349	0.0206	47.0497
Apartments Mid Rise	59.5508 / 37.5429	90.5856	0.0789	0.0466	106.4442
City Park	0 / 39.9146	22.6843	2.0900e-003	2.5000e-004	22.8121
Elementary School	2.0606 / 5.2987	5.4076	2.9400e-003	1.6400e-003	5.9691
Office Park	222.523 / 136.385	336.2731	0.2947	0.1741	395.5191
Single Family Housing	69.5193 / 43.8274	105.7493	0.0921	0.0544	124.2625
Total		681.6129	0.5762	0.3392	797.0879

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments High Rise	53.1657 / 33.5175	80.8730	0.0705	0.0416	95.0311
Apartments Low Rise	26.3222 / 16.5944	40.0400	0.0349	0.0206	47.0497
Apartments Mid Rise	59.5508 / 37.5429	90.5856	0.0789	0.0466	106.4442
City Park	0 / 39.9146	22.6843	2.0900e-003	2.5000e-004	22.8121
Elementary School	2.0606 / 5.2987	5.4076	2.9400e-003	1.6400e-003	5.9691
Office Park	222.523 / 136.385	336.2731	0.2947	0.1741	395.5191
Single Family Housing	69.5193 / 43.8274	105.7493	0.0921	0.0544	124.2625
Total		681.6129	0.5762	0.3392	797.0879

8.0 Waste Detail**8.1 Mitigation Measures Waste**

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	675.8889	39.9439	0.0000	1,674.4860
Unmitigated	675.8889	39.9439	0.0000	1,674.4860

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	375.36	76.1947	4.5030	0.0000	188.7691
Apartments Low Rise	185.84	37.7238	2.2294	0.0000	93.4592
Apartments Mid Rise	420.44	85.3455	5.0438	0.0000	211.4399
City Park	2.88	0.5846	0.0346	0.0000	1.4484
Elementary School	155.13	31.4900	1.8610	0.0000	78.0151
Office Park	1164.36	236.3546	13.9682	0.0000	585.5584
Single Family Housing	1025.64	208.1957	12.3040	0.0000	515.7959
Total		675.8889	39.9439	0.0000	1,674.486 0

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	375.36	76.1947	4.5030	0.0000	188.7691
Apartments Low Rise	185.84	37.7238	2.2294	0.0000	93.4592
Apartments Mid Rise	420.44	85.3455	5.0438	0.0000	211.4399
City Park	2.88	0.5846	0.0346	0.0000	1.4484
Elementary School	155.13	31.4900	1.8610	0.0000	78.0151
Office Park	1164.36	236.3546	13.9682	0.0000	585.5584
Single Family Housing	1025.64	208.1957	12.3040	0.0000	515.7959
Total		675.8889	39.9439	0.0000	1,674.4860

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Annual

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

UWSP - Phase 1 Construction
Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	1,252.00	1000sqft	47.90	1,252,000.00	0
Elementary School	850.00	Student	17.00	71,062.86	0
City Park	33.50	Acre	33.50	1,459,260.00	0
Apartments High Rise	816.00	Dwelling Unit	25.10	816,000.00	2179
Apartments Low Rise	404.00	Dwelling Unit	33.70	404,000.00	1079
Apartments Mid Rise	914.00	Dwelling Unit	40.60	914,000.00	2440
Single Family Housing	1,067.00	Dwelling Unit	173.50	1,920,600.00	2849

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreages updated based on preliminary land use summary.

Construction Phase - Construction phase timing adjusted based on applicant-provided information.

Off-road Equipment - Architectural coating equipment doubled.

Off-road Equipment - Building construction phase equipment doubled.

Off-road Equipment - Construction equipment updated per engineer information.

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

Off-road Equipment - Construction equipment updated per engineer information.

Off-road Equipment - Number of equipment has been updated.

Grading -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	1,680.00
tblConstructionPhase	NumDays	6,200.00	1,680.00
tblConstructionPhase	NumDays	620.00	60.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	240.00	60.00
tblGrading	AcresOfGrading	1,860.00	390.00
tblGrading	AcresOfGrading	180.00	90.00
tblGrading	MaterialExported	0.00	122,750.00
tblLandUse	LotAcreage	28.74	47.90
tblLandUse	LotAcreage	1.63	17.00
tblLandUse	LotAcreage	13.16	25.10
tblLandUse	LotAcreage	25.25	33.70
tblLandUse	LotAcreage	24.05	40.60
tblLandUse	LotAcreage	346.43	173.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

2.0 Emissions Summary

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	27.1921	313.1819	218.1353	0.6681	37.9895	11.1932	40.5229	20.1038	10.3087	22.4345	0.0000	66,696.55 71	66,696.55 71	16.3955	2.7938	67,938.98 69
2024	53.0253	70.6723	137.0829	0.4481	31.8653	1.7579	33.5499	8.5610	1.6173	10.1534	0.0000	46,350.32 14	46,350.32 14	3.1233	2.9291	47,279.67 26
2025	52.0752	67.3156	130.6709	0.4369	31.8647	1.4844	33.3491	8.5608	1.4030	9.9639	0.0000	45,425.12 17	45,425.12 17	2.1844	2.8483	46,328.51 11
2026	51.4396	66.1643	125.4431	0.4266	31.8643	1.4736	33.3378	8.5606	1.3929	9.9535	0.0000	44,533.15 39	44,533.15 39	2.1249	2.7752	45,413.28 18
2027	50.8546	65.1434	121.0018	0.4168	31.8638	1.4625	33.3263	8.5605	1.3825	9.9430	0.0000	43,672.95 65	43,672.95 65	2.0711	2.7047	44,530.73 02
2028	50.3230	64.2961	117.3142	0.4078	31.8634	1.4516	33.3150	8.5603	1.3723	9.9327	0.0000	42,889.43 85	42,889.43 85	2.0261	2.6409	43,727.06 42
2029	49.8048	63.5325	114.1369	0.3996	31.8630	1.4410	33.3040	8.5602	1.3625	9.9227	0.0000	42,174.47 95	42,174.47 95	1.9862	2.5829	42,993.83 53
2030	49.1103	53.2019	111.5897	0.4003	31.8627	0.6096	32.4723	8.5601	0.5943	9.1544	0.0000	42,216.72 10	42,216.72 10	0.9740	2.5311	42,995.35 07
Maximum	53.0253	313.1819	218.1353	0.6681	37.9895	11.1932	40.5229	20.1038	10.3087	22.4345	0.0000	66,696.55 71	66,696.55 71	16.3955	2.9291	67,938.98 69

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

Mitigated Construction

[illegible]

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Energy	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.55 59	21,635.55 59	0.4147	0.3967	21,764.12 52
Mobile	70.3962	62.2346	639.8722	1.3595	190.0352	0.6095	190.6447	50.5937	0.5702	51.1639		152,880.1 138	152,880.1 138	8.7284	6.2916	154,973.2 142
Total	212.6823	82.5558	912.6950	1.4816	190.0352	3.4450	193.4802	50.5937	3.4057	53.9994	0.0000	174,991.6 529	174,991.6 529	9.5969	6.6882	177,224.6 681

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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Energy	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.55 59	21,635.55 59	0.4147	0.3967	21,764.12 52
Mobile	70.3962	62.2346	639.8722	1.3595	190.0352	0.6095	190.6447	50.5937	0.5702	51.1639		152,880.1 138	152,880.1 138	8.7284	6.2916	154,973.2 142
Total	212.6823	82.5558	912.6950	1.4816	190.0352	3.4450	193.4802	50.5937	3.4057	53.9994	0.0000	174,991.6 529	174,991.6 529	9.5969	6.6882	177,224.6 681

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	6/1/2023	8/23/2023	5	60	
2	Grading	Grading	8/24/2023	11/15/2023	5	60	
3	Paving	Paving	11/16/2023	2/7/2024	5	60	
4	Building Construction	Building Construction	2/8/2024	7/17/2030	5	1680	
5	Architectural Coating	Architectural Coating	2/22/2024	7/31/2030	5	1680	

Acres of Grading (Site Preparation Phase): 90**Acres of Grading (Grading Phase): 390****Acres of Paving: 0****Residential Indoor: 8,210,565; Residential Outdoor: 2,736,855; Non-Residential Indoor: 1,984,594; Non-Residential Outdoor: 661,531; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Excavators	8	8.00	158	0.38
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	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	14	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	40	100.00	0.00	15,344.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	24	60.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	2,964.00	798.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	593.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					37.7233	0.0000	37.7233	20.0331	0.0000	20.0331			0.0000			0.0000
Off-Road	5.3189	55.0484	36.4886	0.0761		2.5320	2.5320		2.3295	2.3295		7,374.616 2	7,374.616 2	2.3851		7,434.243 7
Total	5.3189	55.0484	36.4886	0.0761	37.7233	2.5320	40.2553	20.0331	2.3295	22.3626		7,374.616 2	7,374.616 2	2.3851		7,434.243 7

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	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884
Total	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					37.7233	0.0000	37.7233	20.0331	0.0000	20.0331			0.0000			0.0000
Off-Road	5.3189	55.0483	36.4886	0.0761		2.5320	2.5320		2.3295	2.3295	0.0000	7,374.616 2	7,374.616 2	2.3851		7,434.243 7
Total	5.3189	55.0483	36.4886	0.0761	37.7233	2.5320	40.2553	20.0331	2.3295	22.3626	0.0000	7,374.616 2	7,374.616 2	2.3851		7,434.243 7

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	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884
Total	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.3605	0.0000	19.3605	7.4288	0.0000	7.4288			0.0000			0.0000
Off-Road	26.1612	274.5806	207.2964	0.5007		10.8929	10.8929		10.0215	10.0215		48,474.59 89	48,474.59 89	15.6777		48,866.54 06
Total	26.1612	274.5806	207.2964	0.5007	19.3605	10.8929	30.2534	7.4288	10.0215	17.4503		48,474.59 89	48,474.59 89	15.6777		48,866.54 06

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	0.6939	38.4393	8.1136	0.1604	4.4595	0.2964	4.7559	1.2212	0.2836	1.5048		17,510.25 94	17,510.25 94	0.6983	2.7763	18,355.05 08
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	0.3370	0.1619	2.7253	6.9500e-003	0.7607	3.9200e-003	0.7646	0.2018	3.6100e-003	0.2054		711.6989	711.6989	0.0195	0.0175	717.3955
Total	1.0309	38.6012	10.8389	0.1674	5.2202	0.3003	5.5205	1.4229	0.2872	1.7101		18,221.95 83	18,221.95 83	0.7178	2.7938	19,072.44 63

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.3605	0.0000	19.3605	7.4288	0.0000	7.4288			0.0000			0.0000
Off-Road	26.1612	274.5806	207.2964	0.5007		10.8929	10.8929		10.0215	10.0215	0.0000	48,474.5988	48,474.5988	15.6777		48,866.5405
Total	26.1612	274.5806	207.2964	0.5007	19.3605	10.8929	30.2534	7.4288	10.0215	17.4503	0.0000	48,474.5988	48,474.5988	15.6777		48,866.5405

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	0.6939	38.4393	8.1136	0.1604	4.4595	0.2964	4.7559	1.2212	0.2836	1.5048		17,510.2594	17,510.2594	0.6983	2.7763	18,355.0508
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	0.3370	0.1619	2.7253	6.9500e-003	0.7607	3.9200e-003	0.7646	0.2018	3.6100e-003	0.2054		711.6989	711.6989	0.0195	0.0175	717.3955
Total	1.0309	38.6012	10.8389	0.1674	5.2202	0.3003	5.5205	1.4229	0.2872	1.7101		18,221.9583	18,221.9583	0.7178	2.7938	19,072.4463

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757		9,622.319 4	9,622.319 4	3.1121		9,700.120 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757		9,622.319 4	9,622.319 4	3.1121		9,700.120 7

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	0.2022	0.0971	1.6352	4.1700e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		427.0193	427.0193	0.0117	0.0105	430.4373
Total	0.2022	0.0971	1.6352	4.1700e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		427.0193	427.0193	0.0117	0.0105	430.4373

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757	0.0000	9,622.319 4	9,622.319 4	3.1121		9,700.120 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757	0.0000	9,622.319 4	9,622.319 4	3.1121		9,700.120 7

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	0.2022	0.0971	1.6352	4.1700e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		427.0193	427.0193	0.0117	0.0105	430.4373
Total	0.2022	0.0971	1.6352	4.1700e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		427.0193	427.0193	0.0117	0.0105	430.4373

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152		9,624.284 3	9,624.284 3	3.1127		9,702.101 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152		9,624.284 3	9,624.284 3	3.1127		9,702.101 5

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	0.1889	0.0865	1.5179	4.0400e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		416.2517	416.2517	0.0106	9.7600e-003	419.4234
Total	0.1889	0.0865	1.5179	4.0400e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		416.2517	416.2517	0.0106	9.7600e-003	419.4234

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152	0.0000	9,624.284 3	9,624.284 3	3.1127		9,702.101 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152	0.0000	9,624.284 3	9,624.284 3	3.1127		9,702.101 5

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	0.1889	0.0865	1.5179	4.0400e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		416.2517	416.2517	0.0106	9.7600e-003	419.4234
Total	0.1889	0.0865	1.5179	4.0400e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		416.2517	416.2517	0.0106	9.7600e-003	419.4234

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538		5,111.3978	5,111.3978	1.2087		5,141.6153
Total	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538		5,111.3978	5,111.3978	1.2087		5,141.6153

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	1.0214	36.2168	11.1421	0.1491	4.8072	0.2033	5.0105	1.3836	0.1945	1.5781		15,999.2408	15,999.2408	0.3918	2.3507	16,709.5507
Worker	9.3291	4.2750	74.9849	0.1993	22.5471	0.1107	22.6578	5.9808	0.1019	6.0827		20,562.8327	20,562.8327	0.5229	0.4819	20,719.5166
Total	10.3505	40.4918	86.1270	0.3484	27.3543	0.3140	27.6683	7.3644	0.2964	7.6608		36,562.0735	36,562.0735	0.9146	2.8327	37,429.0674

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538	0.0000	5,111.3978	5,111.3978	1.2087		5,141.6153
Total	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538	0.0000	5,111.3978	5,111.3978	1.2087		5,141.6153

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	1.0214	36.2168	11.1421	0.1491	4.8072	0.2033	5.0105	1.3836	0.1945	1.5781		15,999.2408	15,999.2408	0.3918	2.3507	16,709.5507
Worker	9.3291	4.2750	74.9849	0.1993	22.5471	0.1107	22.6578	5.9808	0.1019	6.0827		20,562.8327	20,562.8327	0.5229	0.4819	20,719.5166
Total	10.3505	40.4918	86.1270	0.3484	27.3543	0.3140	27.6683	7.3644	0.2964	7.6608		36,562.0735	36,562.0735	0.9146	2.8327	37,429.0674

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.9847	35.4796	10.8808	0.1460	4.8067	0.1993	5.0059	1.3834	0.1906	1.5740		15,674.81 63	15,674.81 63	0.3836	2.3074	16,372.01 87
Worker	8.7582	3.8378	69.9982	0.1926	22.5471	0.1058	22.6529	5.9808	0.0974	6.0783		20,060.92 25	20,060.92 25	0.4734	0.4507	20,207.05 75
Total	9.7429	39.3174	80.8790	0.3386	27.3538	0.3051	27.6589	7.3642	0.2880	7.6523		35,735.73 88	35,735.73 88	0.8571	2.7581	36,579.07 63

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9847	35.4796	10.8808	0.1460	4.8067	0.1993	5.0059	1.3834	0.1906	1.5740		15,674.8163	15,674.8163	0.3836	2.3074	16,372.0187
Worker	8.7582	3.8378	69.9982	0.1926	22.5471	0.1058	22.6529	5.9808	0.0974	6.0783		20,060.9225	20,060.9225	0.4734	0.4507	20,207.0575
Total	9.7429	39.3174	80.8790	0.3386	27.3538	0.3051	27.6589	7.3642	0.2880	7.6523		35,735.7388	35,735.7388	0.8571	2.7581	36,579.0763

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2026****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.9504	34.7576	10.6662	0.1430	4.8062	0.1944	5.0006	1.3832	0.1859	1.5692		15,358.72 33	15,358.72 33	0.3752	2.2655	16,043.21 63
Worker	8.2570	3.4800	65.8207	0.1864	22.5471	0.1009	22.6480	5.9808	0.0929	6.0737		19,581.05 38	19,581.05 38	0.4309	0.4247	19,718.39 59
Total	9.2075	38.2377	76.4869	0.3294	27.3533	0.2953	27.6486	7.3641	0.2788	7.6429		34,939.77 71	34,939.77 71	0.8061	2.6902	35,761.61 22

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2026****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9504	34.7576	10.6662	0.1430	4.8062	0.1944	5.0006	1.3832	0.1859	1.5692		15,358.7233	15,358.7233	0.3752	2.2655	16,043.2163
Worker	8.2570	3.4800	65.8207	0.1864	22.5471	0.1009	22.6480	5.9808	0.0929	6.0737		19,581.0538	19,581.0538	0.4309	0.4247	19,718.3959
Total	9.2075	38.2377	76.4869	0.3294	27.3533	0.2953	27.6486	7.3641	0.2788	7.6429		34,939.7771	34,939.7771	0.8061	2.6902	35,761.6122

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2027****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.9199	34.0960	10.4837	0.1399	4.8057	0.1899	4.9957	1.3831	0.1817	1.5647		15,028.82 58	15,028.82 58	0.3656	2.2211	15,699.84 79
Worker	7.7950	3.1807	62.2720	0.1808	22.5471	0.0954	22.6425	5.9808	0.0878	6.0686		19,139.16 20	19,139.16 20	0.3941	0.4030	19,269.10 18
Total	8.7149	37.2767	72.7556	0.3207	27.3529	0.2853	27.6382	7.3639	0.2695	7.6334		34,167.98 79	34,167.98 79	0.7597	2.6241	34,968.94 97

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2027****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9199	34.0960	10.4837	0.1399	4.8057	0.1899	4.9957	1.3831	0.1817	1.5647		15,028.8258	15,028.8258	0.3656	2.2211	15,699.8479
Worker	7.7950	3.1807	62.2720	0.1808	22.5471	0.0954	22.6425	5.9808	0.0878	6.0686		19,139.1620	19,139.1620	0.3941	0.4030	19,269.1018
Total	8.7149	37.2767	72.7556	0.3207	27.3529	0.2853	27.6382	7.3639	0.2695	7.6334		34,167.9879	34,167.9879	0.7597	2.6241	34,968.9497

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2028****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8931	33.5448	10.3379	0.1370	4.8053	0.1860	4.9913	1.3829	0.1779	1.5608		14,719.67 93	14,719.67 93	0.3584	2.1789	15,377.95 83
Worker	7.3744	2.9340	59.3206	0.1758	22.5471	0.0896	22.6367	5.9808	0.0824	6.0633		18,743.87 47	18,743.87 47	0.3625	0.3849	18,867.64 41
Total	8.2675	36.4787	69.6585	0.3128	27.3525	0.2755	27.6280	7.3638	0.2603	7.6241		33,463.55 39	33,463.55 39	0.7209	2.5638	34,245.60 24

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8931	33.5448	10.3379	0.1370	4.8053	0.1860	4.9913	1.3829	0.1779	1.5608		14,719.67 93	14,719.67 93	0.3584	2.1789	15,377.95 83
Worker	7.3744	2.9340	59.3206	0.1758	22.5471	0.0896	22.6367	5.9808	0.0824	6.0633		18,743.87 47	18,743.87 47	0.3625	0.3849	18,867.64 41
Total	8.2675	36.4787	69.6585	0.3128	27.3525	0.2755	27.6280	7.3638	0.2603	7.6241		33,463.55 39	33,463.55 39	0.7209	2.5638	34,245.60 24

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8682	33.0317	10.2117	0.1343	4.8050	0.1822	4.9871	1.3828	0.1743	1.5570		14,430.37 56	14,430.37 56	0.3519	2.1392	15,076.64 85
Worker	6.9634	2.7252	56.7782	0.1712	22.5471	0.0839	22.6311	5.9808	0.0772	6.0581		18,389.18 19	18,389.18 19	0.3347	0.3697	18,507.73 17
Total	7.8315	35.7569	66.9898	0.3055	27.3521	0.2661	27.6182	7.3636	0.2515	7.6151		32,819.55 75	32,819.55 75	0.6866	2.5089	33,584.38 02

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.8682	33.0317	10.2117	0.1343	4.8050	0.1822	4.9871	1.3828	0.1743	1.5570		14,430.3756	14,430.3756	0.3519	2.1392	15,076.6485
Worker	6.9634	2.7252	56.7782	0.1712	22.5471	0.0839	22.6311	5.9808	0.0772	6.0581		18,389.1819	18,389.1819	0.3347	0.3697	18,507.7317
Total	7.8315	35.7569	66.9898	0.3055	27.3521	0.2661	27.6182	7.3636	0.2515	7.6151		32,819.5575	32,819.5575	0.6866	2.5089	33,584.3802

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2030****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057

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	0.8457	32.5603	10.1123	0.1318	4.8046	0.1784	4.9830	1.3827	0.1707	1.5533		14,164.6038	14,164.6038	0.3465	2.1026	14,799.8467
Worker	6.5674	2.5497	54.6369	0.1672	22.5471	0.0786	22.6257	5.9808	0.0723	6.0532		18,077.4232	18,077.4232	0.3102	0.3571	18,191.5876
Total	7.4130	35.1100	64.7492	0.2990	27.3518	0.2570	27.6088	7.3635	0.2430	7.6065		32,242.0269	32,242.0269	0.6567	2.4597	32,991.4343

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	0.8457	32.5603	10.1123	0.1318	4.8046	0.1784	4.9830	1.3827	0.1707	1.5533		14,164.6038	14,164.6038	0.3465	2.1026	14,799.8467
Worker	6.5674	2.5497	54.6369	0.1672	22.5471	0.0786	22.6257	5.9808	0.0723	6.0532		18,077.4232	18,077.4232	0.3102	0.3571	18,191.5876
Total	7.4130	35.1100	64.7492	0.2990	27.3518	0.2570	27.6088	7.3635	0.2430	7.6065		32,242.0269	32,242.0269	0.6567	2.4597	32,991.4343

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3615	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.6885
Total	37.8652	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.6885

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	1.8665	0.8553	15.0020	0.0399	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		4,113.9540	4,113.9540	0.1046	0.0964	4,145.3014
Total	1.8665	0.8553	15.0020	0.0399	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		4,113.9540	4,113.9540	0.1046	0.0964	4,145.3014

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3615	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218	0.0000	562.8961	562.8961	0.0317		563.6885
Total	37.8652	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218	0.0000	562.8961	562.8961	0.0317		563.6885

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	1.8665	0.8553	15.0020	0.0399	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		4,113.9540	4,113.9540	0.1046	0.0964	4,145.3014
Total	1.8665	0.8553	15.0020	0.0399	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		4,113.9540	4,113.9540	0.1046	0.0964	4,145.3014

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.7522	0.7678	14.0044	0.0385	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		4,013.5381	4,013.5381	0.0947	0.0902	4,042.7750
Total	1.7522	0.7678	14.0044	0.0385	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		4,013.5381	4,013.5381	0.0947	0.0902	4,042.7750

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.7522	0.7678	14.0044	0.0385	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		4,013.5381	4,013.5381	0.0947	0.0902	4,042.7750
Total	1.7522	0.7678	14.0044	0.0385	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		4,013.5381	4,013.5381	0.0947	0.0902	4,042.7750

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.6520	0.6962	13.1686	0.0373	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,917.5320	3,917.5320	0.0862	0.0850	3,945.0097
Total	1.6520	0.6962	13.1686	0.0373	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,917.5320	3,917.5320	0.0862	0.0850	3,945.0097

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2026

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.6520	0.6962	13.1686	0.0373	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,917.5320	3,917.5320	0.0862	0.0850	3,945.0097
Total	1.6520	0.6962	13.1686	0.0373	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,917.5320	3,917.5320	0.0862	0.0850	3,945.0097

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2027****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.5595	0.6364	12.4586	0.0362	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,829.1238	3,829.1238	0.0788	0.0806	3,855.1206
Total	1.5595	0.6364	12.4586	0.0362	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,829.1238	3,829.1238	0.0788	0.0806	3,855.1206

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2027****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.5595	0.6364	12.4586	0.0362	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,829.1238	3,829.1238	0.0788	0.0806	3,855.1206
Total	1.5595	0.6364	12.4586	0.0362	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,829.1238	3,829.1238	0.0788	0.0806	3,855.1206

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.4754	0.5870	11.8681	0.0352	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,750.0397	3,750.0397	0.0725	0.0770	3,774.8019
Total	1.4754	0.5870	11.8681	0.0352	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,750.0397	3,750.0397	0.0725	0.0770	3,774.8019

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2028

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.4754	0.5870	11.8681	0.0352	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,750.0397	3,750.0397	0.0725	0.0770	3,774.8019
Total	1.4754	0.5870	11.8681	0.0352	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,750.0397	3,750.0397	0.0725	0.0770	3,774.8019

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2029****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.3931	0.5452	11.3595	0.0343	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,679.0772	3,679.0772	0.0670	0.0740	3,702.7952
Total	1.3931	0.5452	11.3595	0.0343	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,679.0772	3,679.0772	0.0670	0.0740	3,702.7952

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2029****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.3931	0.5452	11.3595	0.0343	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,679.0772	3,679.0772	0.0670	0.0740	3,702.7952
Total	1.3931	0.5452	11.3595	0.0343	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,679.0772	3,679.0772	0.0670	0.0740	3,702.7952

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	37.7651	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.3139	0.5101	10.9311	0.0335	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,616.7044	3,616.7044	0.0621	0.0714	3,639.5450
Total	1.3139	0.5101	10.9311	0.0335	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,616.7044	3,616.7044	0.0621	0.0714	3,639.5450

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656
Total	37.7651	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.3139	0.5101	10.9311	0.0335	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,616.7044	3,616.7044	0.0621	0.0714	3,639.5450
Total	1.3139	0.5101	10.9311	0.0335	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,616.7044	3,616.7044	0.0621	0.0714	3,639.5450

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	70.3962	62.2346	639.8722	1.3595	190.0352	0.6095	190.6447	50.5937	0.5702	51.1639		152,880.1 138	152,880.1 138	8.7284	6.2916	154,973.2 142
Unmitigated	70.3962	62.2346	639.8722	1.3595	190.0352	0.6095	190.6447	50.5937	0.5702	51.1639		152,880.1 138	152,880.1 138	8.7284	6.2916	154,973.2 142

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,631.20	3,696.48	2929.44	9,084,730	9,084,730
Apartments Low Rise	2,957.28	3,288.56	2537.12	7,556,121	7,556,121
Apartments Mid Rise	4,972.16	4,487.74	3738.26	12,129,191	12,129,191
City Park	26.13	65.66	73.37	71,077	71,077
Elementary School	1,606.50	0.00	0.00	2,413,021	2,413,021
Office Park	13,859.64	2,053.28	951.52	22,369,655	22,369,655
Single Family Housing	10,072.48	10,179.18	9122.85	25,538,074	25,538,074
Total	37,125.39	23,770.90	19,352.56	79,161,869	79,161,869

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
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Low Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
City Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Elementary School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Office Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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					
NaturalGas Mitigated	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252
NaturalGas Unmitigated	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	21051.1	0.2270	1.9400	0.8255	0.0124		0.1569	0.1569		0.1569	0.1569		2,476.5975	2,476.5975	0.0475	0.0454	2,491.3147
Apartments Low Rise	12901.8	0.1391	1.1890	0.5060	7.5900e-003		0.0961	0.0961		0.0961	0.0961		1,517.8641	1,517.8641	0.0291	0.0278	1,526.8840
Apartments Mid Rise	23579.3	0.2543	2.1730	0.9247	0.0139		0.1757	0.1757		0.1757	0.1757		2,774.0320	2,774.0320	0.0532	0.0509	2,790.5167
City Park	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
Elementary School	2943.75	0.0318	0.2886	0.2424	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.3241	346.3241	6.6400e-003	6.3500e-003	348.3821
Office Park	54264.8	0.5852	5.3201	4.4689	0.0319		0.4043	0.4043		0.4043	0.4043		6,384.0903	6,384.0903	0.1224	0.1170	6,422.0277
Single Family Housing	69161.5	0.7459	6.3737	2.7122	0.0407		0.5153	0.5153		0.5153	0.5153		8,136.6480	8,136.6480	0.1560	0.1492	8,185.0000
Total		1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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					
Apartments High Rise	21.0511	0.2270	1.9400	0.8255	0.0124		0.1569	0.1569		0.1569	0.1569		2,476.5975	2,476.5975	0.0475	0.0454	2,491.3147
Apartments Low Rise	12.9018	0.1391	1.1890	0.5060	7.5900e-003		0.0961	0.0961		0.0961	0.0961		1,517.8641	1,517.8641	0.0291	0.0278	1,526.8840
Apartments Mid Rise	23.5793	0.2543	2.1730	0.9247	0.0139		0.1757	0.1757		0.1757	0.1757		2,774.0320	2,774.0320	0.0532	0.0509	2,790.5167
City Park	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
Elementary School	2.94375	0.0318	0.2886	0.2424	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.3241	346.3241	6.6400e-003	6.3500e-003	348.3821
Office Park	54.2648	0.5852	5.3201	4.4689	0.0319		0.4043	0.4043		0.4043	0.4043		6,384.0903	6,384.0903	0.1224	0.1170	6,422.0277
Single Family Housing	69.1615	0.7459	6.3737	2.7122	0.0407		0.5153	0.5153		0.5153	0.5153		8,136.6480	8,136.6480	0.1560	0.1492	8,185.0000
Total		1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

6.0 Area Detail

6.1 Mitigation Measures Area

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Unmitigated	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

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	17.2619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	115.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8837	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653		475.9833	475.9833	0.4538		487.3287
Total	140.3029	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	17.2619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	115.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8837	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653		475.9833	475.9833	0.4538		487.3287
Total	140.3029	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

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

UWSP - Phase 1 Construction
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	1,252.00	1000sqft	47.90	1,252,000.00	0
Elementary School	850.00	Student	17.00	71,062.86	0
City Park	33.50	Acre	33.50	1,459,260.00	0
Apartments High Rise	816.00	Dwelling Unit	25.10	816,000.00	2179
Apartments Low Rise	404.00	Dwelling Unit	33.70	404,000.00	1079
Apartments Mid Rise	914.00	Dwelling Unit	40.60	914,000.00	2440
Single Family Housing	1,067.00	Dwelling Unit	173.50	1,920,600.00	2849

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	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 - Lot acreages updated based on preliminary land use summary.

Construction Phase - Construction phase timing adjusted based on applicant-provided information.

Off-road Equipment - Architectural coating equipment doubled.

Off-road Equipment - Building construction phase equipment doubled.

Off-road Equipment - Construction equipment updated per engineer information.

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

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

Off-road Equipment - Construction equipment updated per engineer information.

Off-road Equipment - Number of equipment has been updated.

Grading -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	1,680.00
tblConstructionPhase	NumDays	6,200.00	1,680.00
tblConstructionPhase	NumDays	620.00	60.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	240.00	60.00
tblGrading	AcresOfGrading	1,860.00	390.00
tblGrading	AcresOfGrading	180.00	90.00
tblGrading	MaterialExported	0.00	122,750.00
tblLandUse	LotAcreage	28.74	47.90
tblLandUse	LotAcreage	1.63	17.00
tblLandUse	LotAcreage	13.16	25.10
tblLandUse	LotAcreage	25.25	33.70
tblLandUse	LotAcreage	24.05	40.60
tblLandUse	LotAcreage	346.43	173.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

2.0 Emissions Summary

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	27.1208	316.3406	217.9315	0.6674	37.9895	11.1943	40.5229	20.1038	10.3097	22.4345	0.0000	66,627.89 37	66,627.89 37	16.3967	2.7981	67,871.62 92
2024	51.7297	74.5524	126.3548	0.4219	31.8653	1.7579	33.5520	8.5610	1.6173	10.1554	0.0000	43,645.00 37	43,645.00 37	3.1250	3.0191	44,603.63 27
2025	50.8687	71.0302	120.9572	0.4117	31.8647	1.4863	33.3511	8.5608	1.4049	9.9657	0.0000	42,793.88 15	42,793.88 15	2.2756	2.9324	43,724.62 30
2026	50.3156	69.7357	116.5193	0.4022	31.8643	1.4753	33.3396	8.5606	1.3945	9.9552	0.0000	41,971.27 54	41,971.27 54	2.2101	2.8544	42,877.14 62
2027	49.8020	68.5919	112.7121	0.3932	31.8638	1.4641	33.3279	8.5605	1.3840	9.9445	0.0000	41,173.70 75	41,173.70 75	2.1509	2.7798	42,055.86 82
2028	49.3304	67.6439	109.5317	0.3849	31.8634	1.4530	33.3164	8.5603	1.3737	9.9340	0.0000	40,445.30 04	40,445.30 04	2.1009	2.7126	41,306.17 92
2029	48.8719	66.7922	106.7629	0.3773	31.8630	1.4423	33.3053	8.5602	1.3637	9.9239	0.0000	39,778.92 38	39,778.92 38	2.0565	2.6518	40,620.57 13
2030	48.2395	56.3858	104.5597	0.3785	31.8627	0.6107	32.4734	8.5601	0.5954	9.1555	0.0000	39,863.31 25	39,863.31 25	1.0400	2.5977	40,663.42 76
Maximum	51.7297	316.3406	217.9315	0.6674	37.9895	11.1943	40.5229	20.1038	10.3097	22.4345	0.0000	66,627.89 37	66,627.89 37	16.3967	3.0191	67,871.62 92

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

Mitigated Construction

[illegible]

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Energy	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.55 59	21,635.55 59	0.4147	0.3967	21,764.12 52
Mobile	54.0546	72.3602	641.9886	1.2407	190.0352	0.6099	190.6451	50.5937	0.5706	51.1643		139,391.6 327	139,391.6 327	9.4814	6.8596	141,672.8 134
Total	196.3407	92.6814	914.8114	1.3628	190.0352	3.4455	193.4807	50.5937	3.4061	53.9998	0.0000	161,503.1 719	161,503.1 719	10.3499	7.2562	163,924.2 673

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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Energy	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.55 59	21,635.55 59	0.4147	0.3967	21,764.12 52
Mobile	54.0546	72.3602	641.9886	1.2407	190.0352	0.6099	190.6451	50.5937	0.5706	51.1643		139,391.6 327	139,391.6 327	9.4814	6.8596	141,672.8 134
Total	196.3407	92.6814	914.8114	1.3628	190.0352	3.4455	193.4807	50.5937	3.4061	53.9998	0.0000	161,503.1 719	161,503.1 719	10.3499	7.2562	163,924.2 673

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	6/1/2023	8/23/2023	5	60	
2	Grading	Grading	8/24/2023	11/15/2023	5	60	
3	Paving	Paving	11/16/2023	2/7/2024	5	60	
4	Building Construction	Building Construction	2/8/2024	7/17/2030	5	1680	
5	Architectural Coating	Architectural Coating	2/22/2024	7/31/2030	5	1680	

Acres of Grading (Site Preparation Phase): 90**Acres of Grading (Grading Phase): 390****Acres of Paving: 0****Residential Indoor: 8,210,565; Residential Outdoor: 2,736,855; Non-Residential Indoor: 1,984,594; Non-Residential Outdoor: 661,531; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

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

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Excavators	8	8.00	158	0.38
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	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	14	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	40	100.00	0.00	15,344.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	24	60.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	2,964.00	798.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	593.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					37.7233	0.0000	37.7233	20.0331	0.0000	20.0331			0.0000			0.0000
Off-Road	5.3189	55.0484	36.4886	0.0761		2.5320	2.5320		2.3295	2.3295		7,374.616 2	7,374.616 2	2.3851		7,434.243 7
Total	5.3189	55.0484	36.4886	0.0761	37.7233	2.5320	40.2553	20.0331	2.3295	22.3626		7,374.616 2	7,374.616 2	2.3851		7,434.243 7

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	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649
Total	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					37.7233	0.0000	37.7233	20.0331	0.0000	20.0331			0.0000			0.0000
Off-Road	5.3189	55.0483	36.4886	0.0761		2.5320	2.5320		2.3295	2.3295	0.0000	7,374.616 2	7,374.616 2	2.3851		7,434.243 7
Total	5.3189	55.0483	36.4886	0.0761	37.7233	2.5320	40.2553	20.0331	2.3295	22.3626	0.0000	7,374.616 2	7,374.616 2	2.3851		7,434.243 7

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	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649
Total	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.3605	0.0000	19.3605	7.4288	0.0000	7.4288			0.0000			0.0000
Off-Road	26.1612	274.5806	207.2964	0.5007		10.8929	10.8929		10.0215	10.0215		48,474.59 89	48,474.59 89	15.6777		48,866.54 06
Total	26.1612	274.5806	207.2964	0.5007	19.3605	10.8929	30.2534	7.4288	10.0215	17.4503		48,474.59 89	48,474.59 89	15.6777		48,866.54 06

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	0.6612	41.5613	8.2615	0.1605	4.4595	0.2975	4.7570	1.2212	0.2847	1.5058		17,520.21 67	17,520.21 67	0.6966	2.7780	18,365.47 46
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	0.2984	0.1987	2.3736	6.1900e-003	0.7607	3.9200e-003	0.7646	0.2018	3.6100e-003	0.2054		633.0781	633.0781	0.0225	0.0201	639.6141
Total	0.9596	41.7600	10.6351	0.1667	5.2202	0.3015	5.5216	1.4229	0.2883	1.7112		18,153.29 48	18,153.29 48	0.7191	2.7981	19,005.08 87

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.3605	0.0000	19.3605	7.4288	0.0000	7.4288			0.0000			0.0000
Off-Road	26.1612	274.5806	207.2964	0.5007		10.8929	10.8929		10.0215	10.0215	0.0000	48,474.5988	48,474.5988	15.6777		48,866.5405
Total	26.1612	274.5806	207.2964	0.5007	19.3605	10.8929	30.2534	7.4288	10.0215	17.4503	0.0000	48,474.5988	48,474.5988	15.6777		48,866.5405

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	0.6612	41.5613	8.2615	0.1605	4.4595	0.2975	4.7570	1.2212	0.2847	1.5058		17,520.2167	17,520.2167	0.6966	2.7780	18,365.4746
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	0.2984	0.1987	2.3736	6.1900e-003	0.7607	3.9200e-003	0.7646	0.2018	3.6100e-003	0.2054		633.0781	633.0781	0.0225	0.0201	639.6141
Total	0.9596	41.7600	10.6351	0.1667	5.2202	0.3015	5.5216	1.4229	0.2883	1.7112		18,153.2948	18,153.2948	0.7191	2.7981	19,005.0887

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757		9,622.319 4	9,622.319 4	3.1121		9,700.120 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757		9,622.319 4	9,622.319 4	3.1121		9,700.120 7

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	0.1791	0.1192	1.4241	3.7100e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		379.8469	379.8469	0.0135	0.0120	383.7685
Total	0.1791	0.1192	1.4241	3.7100e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		379.8469	379.8469	0.0135	0.0120	383.7685

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757	0.0000	9,622.319 4	9,622.319 4	3.1121		9,700.120 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757	0.0000	9,622.319 4	9,622.319 4	3.1121		9,700.120 7

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	0.1791	0.1192	1.4241	3.7100e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		379.8469	379.8469	0.0135	0.0120	383.7685
Total	0.1791	0.1192	1.4241	3.7100e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		379.8469	379.8469	0.0135	0.0120	383.7685

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152		9,624.284 3	9,624.284 3	3.1127		9,702.101 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152		9,624.284 3	9,624.284 3	3.1127		9,702.101 5

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	0.1676	0.1061	1.3283	3.5900e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		370.3903	370.3903	0.0123	0.0112	374.0289
Total	0.1676	0.1061	1.3283	3.5900e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		370.3903	370.3903	0.0123	0.0112	374.0289

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152	0.0000	9,624.284 3	9,624.284 3	3.1127		9,702.101 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152	0.0000	9,624.284 3	9,624.284 3	3.1127		9,702.101 5

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	0.1676	0.1061	1.3283	3.5900e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		370.3903	370.3903	0.0123	0.0112	374.0289
Total	0.1676	0.1061	1.3283	3.5900e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		370.3903	370.3903	0.0123	0.0112	374.0289

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538		5,111.3978	5,111.3978	1.2087		5,141.6153
Total	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538		5,111.3978	5,111.3978	1.2087		5,141.6153

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	0.9859	38.9364	11.6558	0.1492	4.8072	0.2054	5.0126	1.3836	0.1965	1.5801		16,012.7390	16,012.7390	0.3899	2.3563	16,724.6490
Worker	8.2792	5.2421	65.6173	0.1774	22.5471	0.1107	22.6578	5.9808	0.1019	6.0827		18,297.2802	18,297.2802	0.6055	0.5524	18,477.0276
Total	9.2651	44.1785	77.2731	0.3266	27.3543	0.3161	27.6704	7.3644	0.2984	7.6629		34,310.0192	34,310.0192	0.9954	2.9086	35,201.6766

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538	0.0000	5,111.3978	5,111.3978	1.2087		5,141.6153
Total	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538	0.0000	5,111.3978	5,111.3978	1.2087		5,141.6153

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	0.9859	38.9364	11.6558	0.1492	4.8072	0.2054	5.0126	1.3836	0.1965	1.5801		16,012.7390	16,012.7390	0.3899	2.3563	16,724.6490
Worker	8.2792	5.2421	65.6173	0.1774	22.5471	0.1107	22.6578	5.9808	0.1019	6.0827		18,297.2802	18,297.2802	0.6055	0.5524	18,477.0276
Total	9.2651	44.1785	77.2731	0.3266	27.3543	0.3161	27.6704	7.3644	0.2984	7.6629		34,310.0192	34,310.0192	0.9954	2.9086	35,201.6766

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.9488	38.1552	11.3812	0.1462	4.8067	0.2012	5.0079	1.3834	0.1925	1.5759		15,689.80 91	15,689.80 91	0.3818	2.3128	16,388.57 03
Worker	7.7827	4.7035	61.4869	0.1714	22.5471	0.1058	22.6529	5.9808	0.0974	6.0783		17,855.85 23	17,855.85 23	0.5509	0.5163	18,023.48 06
Total	8.7315	42.8587	72.8681	0.3175	27.3538	0.3070	27.6608	7.3642	0.2899	7.6541		33,545.66 14	33,545.66 14	0.9327	2.8291	34,412.05 08

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2025****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9488	38.1552	11.3812	0.1462	4.8067	0.2012	5.0079	1.3834	0.1925	1.5759		15,689.8091	15,689.8091	0.3818	2.3128	16,388.5703
Worker	7.7827	4.7035	61.4869	0.1714	22.5471	0.1058	22.6529	5.9808	0.0974	6.0783		17,855.8523	17,855.8523	0.5509	0.5163	18,023.4806
Total	8.7315	42.8587	72.8681	0.3175	27.3538	0.3070	27.6608	7.3642	0.2899	7.6541		33,545.6614	33,545.6614	0.9327	2.8291	34,412.0508

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2026****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9137	37.3895	11.1518	0.1432	4.8062	0.1961	5.0023	1.3832	0.1876	1.5708		15,375.0585	15,375.0585	0.3733	2.2708	16,061.0794
Worker	7.3511	4.2630	57.9800	0.1660	22.5471	0.1009	22.6480	5.9808	0.0929	6.0737		17,432.6632	17,432.6632	0.5035	0.4864	17,590.1833
Total	8.2648	41.6525	69.1318	0.3091	27.3533	0.2970	27.6503	7.3641	0.2805	7.6445		32,807.7217	32,807.7217	0.8768	2.7571	33,651.2628

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2026****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9137	37.3895	11.1518	0.1432	4.8062	0.1961	5.0023	1.3832	0.1876	1.5708		15,375.0585	15,375.0585	0.3733	2.2708	16,061.0794
Worker	7.3511	4.2630	57.9800	0.1660	22.5471	0.1009	22.6480	5.9808	0.0929	6.0737		17,432.6632	17,432.6632	0.5035	0.4864	17,590.1833
Total	8.2648	41.6525	69.1318	0.3091	27.3533	0.2970	27.6503	7.3641	0.2805	7.6445		32,807.7217	32,807.7217	0.8768	2.7571	33,651.2628

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2027****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8824	36.6878	10.9550	0.1401	4.8057	0.1915	4.9972	1.3831	0.1832	1.5662		15,046.28 75	15,046.28 75	0.3637	2.2263	15,718.81 34
Worker	6.9492	3.8945	54.9716	0.1610	22.5471	0.0954	22.6425	5.9808	0.0878	6.0686		17,042.02 10	17,042.02 10	0.4622	0.4613	17,191.02 91
Total	7.8316	40.5824	65.9265	0.3011	27.3529	0.2868	27.6397	7.3639	0.2709	7.6349		32,088.30 85	32,088.30 85	0.8259	2.6875	32,909.84 25

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2027****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8824	36.6878	10.9550	0.1401	4.8057	0.1915	4.9972	1.3831	0.1832	1.5662		15,046.28 75	15,046.28 75	0.3637	2.2263	15,718.81 34
Worker	6.9492	3.8945	54.9716	0.1610	22.5471	0.0954	22.6425	5.9808	0.0878	6.0686		17,042.02 10	17,042.02 10	0.4622	0.4613	17,191.02 91
Total	7.8316	40.5824	65.9265	0.3011	27.3529	0.2868	27.6397	7.3639	0.2709	7.6349		32,088.30 85	32,088.30 85	0.8259	2.6875	32,909.84 25

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2028****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8548	36.1044	10.7955	0.1372	4.8053	0.1874	4.9927	1.3829	0.1792	1.5622		14,738.06 78	14,738.06 78	0.3565	2.1841	15,397.83 23
Worker	6.5792	3.5907	52.4542	0.1565	22.5471	0.0896	22.6367	5.9808	0.0824	6.0633		16,691.88 46	16,691.88 46	0.4265	0.4404	16,833.79 27
Total	7.4340	39.6951	63.2497	0.2937	27.3525	0.2769	27.6294	7.3638	0.2617	7.6254		31,429.95 24	31,429.95 24	0.7830	2.6245	32,231.62 49

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2028****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8548	36.1044	10.7955	0.1372	4.8053	0.1874	4.9927	1.3829	0.1792	1.5622		14,738.06 78	14,738.06 78	0.3565	2.1841	15,397.83 23
Worker	6.5792	3.5907	52.4542	0.1565	22.5471	0.0896	22.6367	5.9808	0.0824	6.0633		16,691.88 46	16,691.88 46	0.4265	0.4404	16,833.79 27
Total	7.4340	39.6951	63.2497	0.2937	27.3525	0.2769	27.6294	7.3638	0.2617	7.6254		31,429.95 24	31,429.95 24	0.7830	2.6245	32,231.62 49

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.8291	35.5615	10.6561	0.1345	4.8050	0.1834	4.9884	1.3828	0.1755	1.5583		14,449.5918	14,449.5918	0.3499	2.1443	15,097.3378
Worker	6.2185	3.3334	50.2632	0.1525	22.5471	0.0839	22.6311	5.9808	0.0772	6.0581		16,376.9852	16,376.9852	0.3949	0.4229	16,512.8828
Total	7.0477	38.8949	60.9193	0.2870	27.3521	0.2674	27.6194	7.3636	0.2527	7.6163		30,826.5769	30,826.5769	0.7449	2.5672	31,610.2206

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8291	35.5615	10.6561	0.1345	4.8050	0.1834	4.9884	1.3828	0.1755	1.5583		14,449.59 18	14,449.59 18	0.3499	2.1443	15,097.33 78
Worker	6.2185	3.3334	50.2632	0.1525	22.5471	0.0839	22.6311	5.9808	0.0772	6.0581		16,376.98 52	16,376.98 52	0.3949	0.4229	16,512.88 28
Total	7.0477	38.8949	60.9193	0.2870	27.3521	0.2674	27.6194	7.3636	0.2527	7.6163		30,826.57 69	30,826.57 69	0.7449	2.5672	31,610.22 06

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2030****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057

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	0.8058	35.0632	10.5443	0.1320	4.8046	0.1795	4.9842	1.3827	0.1717	1.5544		14,184.6255	14,184.6255	0.3445	2.1077	14,821.3373
Worker	5.8750	3.1172	48.4189	0.1489	22.5471	0.0786	22.6257	5.9808	0.0723	6.0532		16,099.6759	16,099.6759	0.3669	0.4083	16,230.5199
Total	6.6807	38.1804	58.9632	0.2809	27.3518	0.2581	27.6099	7.3635	0.2441	7.6076		30,284.3014	30,284.3014	0.7114	2.5160	31,051.8571

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2030****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	0.8058	35.0632	10.5443	0.1320	4.8046	0.1795	4.9842	1.3827	0.1717	1.5544		14,184.6255	14,184.6255	0.3445	2.1077	14,821.3373
Worker	5.8750	3.1172	48.4189	0.1489	22.5471	0.0786	22.6257	5.9808	0.0723	6.0532		16,099.6759	16,099.6759	0.3669	0.4083	16,230.5199
Total	6.6807	38.1804	58.9632	0.2809	27.3518	0.2581	27.6099	7.3635	0.2441	7.6076		30,284.3014	30,284.3014	0.7114	2.5160	31,051.8571

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3615	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.6885
Total	37.8652	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.6885

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	1.6564	1.0488	13.1279	0.0355	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		3,660.6907	3,660.6907	0.1211	0.1105	3,696.6523
Total	1.6564	1.0488	13.1279	0.0355	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		3,660.6907	3,660.6907	0.1211	0.1105	3,696.6523

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3615	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218	0.0000	562.8961	562.8961	0.0317		563.6885
Total	37.8652	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218	0.0000	562.8961	562.8961	0.0317		563.6885

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	1.6564	1.0488	13.1279	0.0355	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		3,660.6907	3,660.6907	0.1211	0.1105	3,696.6523
Total	1.6564	1.0488	13.1279	0.0355	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		3,660.6907	3,660.6907	0.1211	0.1105	3,696.6523

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.5571	0.9410	12.3015	0.0343	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		3,572.3753	3,572.3753	0.1102	0.1033	3,605.9123
Total	1.5571	0.9410	12.3015	0.0343	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		3,572.3753	3,572.3753	0.1102	0.1033	3,605.9123

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.5571	0.9410	12.3015	0.0343	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		3,572.3753	3,572.3753	0.1102	0.1033	3,605.9123
Total	1.5571	0.9410	12.3015	0.0343	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		3,572.3753	3,572.3753	0.1102	0.1033	3,605.9123

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.4707	0.8529	11.5999	0.0332	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,487.7089	3,487.7089	0.1007	0.0973	3,519.2236
Total	1.4707	0.8529	11.5999	0.0332	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,487.7089	3,487.7089	0.1007	0.0973	3,519.2236

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.4707	0.8529	11.5999	0.0332	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,487.7089	3,487.7089	0.1007	0.0973	3,519.2236
Total	1.4707	0.8529	11.5999	0.0332	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,487.7089	3,487.7089	0.1007	0.0973	3,519.2236

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2027****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.3903	0.7792	10.9980	0.0322	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,409.5541	3,409.5541	0.0925	0.0923	3,439.3658
Total	1.3903	0.7792	10.9980	0.0322	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,409.5541	3,409.5541	0.0925	0.0923	3,439.3658

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2027****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.3903	0.7792	10.9980	0.0322	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,409.5541	3,409.5541	0.0925	0.0923	3,439.3658
Total	1.3903	0.7792	10.9980	0.0322	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,409.5541	3,409.5541	0.0925	0.0923	3,439.3658

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.3163	0.7184	10.4944	0.0313	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,339.5032	3,339.5032	0.0853	0.0881	3,367.8944
Total	1.3163	0.7184	10.4944	0.0313	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,339.5032	3,339.5032	0.0853	0.0881	3,367.8944

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.3163	0.7184	10.4944	0.0313	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,339.5032	3,339.5032	0.0853	0.0881	3,367.8944
Total	1.3163	0.7184	10.4944	0.0313	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,339.5032	3,339.5032	0.0853	0.0881	3,367.8944

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2029****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.2441	0.6669	10.0560	0.0305	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,276.5021	3,276.5021	0.0790	0.0846	3,303.6908
Total	1.2441	0.6669	10.0560	0.0305	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,276.5021	3,276.5021	0.0790	0.0846	3,303.6908

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2029****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.2441	0.6669	10.0560	0.0305	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,276.5021	3,276.5021	0.0790	0.0846	3,303.6908
Total	1.2441	0.6669	10.0560	0.0305	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,276.5021	3,276.5021	0.0790	0.0846	3,303.6908

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	37.7651	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.1754	0.6237	9.6871	0.0298	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,221.0215	3,221.0215	0.0734	0.0817	3,247.1992
Total	1.1754	0.6237	9.6871	0.0298	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,221.0215	3,221.0215	0.0734	0.0817	3,247.1992

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656
Total	37.7651	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.1754	0.6237	9.6871	0.0298	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,221.0215	3,221.0215	0.0734	0.0817	3,247.1992
Total	1.1754	0.6237	9.6871	0.0298	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,221.0215	3,221.0215	0.0734	0.0817	3,247.1992

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	54.0546	72.3602	641.9886	1.2407	190.0352	0.6099	190.6451	50.5937	0.5706	51.1643		139,391.6 327	139,391.6 327	9.4814	6.8596	141,672.8 134
Unmitigated	54.0546	72.3602	641.9886	1.2407	190.0352	0.6099	190.6451	50.5937	0.5706	51.1643		139,391.6 327	139,391.6 327	9.4814	6.8596	141,672.8 134

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,631.20	3,696.48	2929.44	9,084,730	9,084,730
Apartments Low Rise	2,957.28	3,288.56	2537.12	7,556,121	7,556,121
Apartments Mid Rise	4,972.16	4,487.74	3738.26	12,129,191	12,129,191
City Park	26.13	65.66	73.37	71,077	71,077
Elementary School	1,606.50	0.00	0.00	2,413,021	2,413,021
Office Park	13,859.64	2,053.28	951.52	22,369,655	22,369,655
Single Family Housing	10,072.48	10,179.18	9122.85	25,538,074	25,538,074
Total	37,125.39	23,770.90	19,352.56	79,161,869	79,161,869

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, Winter

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Low Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
City Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Elementary School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Office Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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					
NaturalGas Mitigated	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252
NaturalGas Unmitigated	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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					
Apartments High Rise	21051.1	0.2270	1.9400	0.8255	0.0124		0.1569	0.1569		0.1569	0.1569		2,476.5975	2,476.5975	0.0475	0.0454	2,491.3147
Apartments Low Rise	12901.8	0.1391	1.1890	0.5060	7.5900e-003		0.0961	0.0961		0.0961	0.0961		1,517.8641	1,517.8641	0.0291	0.0278	1,526.8840
Apartments Mid Rise	23579.3	0.2543	2.1730	0.9247	0.0139		0.1757	0.1757		0.1757	0.1757		2,774.0320	2,774.0320	0.0532	0.0509	2,790.5167
City Park	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
Elementary School	2943.75	0.0318	0.2886	0.2424	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.3241	346.3241	6.6400e-003	6.3500e-003	348.3821
Office Park	54264.8	0.5852	5.3201	4.4689	0.0319		0.4043	0.4043		0.4043	0.4043		6,384.0903	6,384.0903	0.1224	0.1170	6,422.0277
Single Family Housing	69161.5	0.7459	6.3737	2.7122	0.0407		0.5153	0.5153		0.5153	0.5153		8,136.6480	8,136.6480	0.1560	0.1492	8,185.0000
Total		1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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					
Apartments High Rise	21.0511	0.2270	1.9400	0.8255	0.0124		0.1569	0.1569		0.1569	0.1569		2,476.5975	2,476.5975	0.0475	0.0454	2,491.3147
Apartments Low Rise	12.9018	0.1391	1.1890	0.5060	7.5900e-003		0.0961	0.0961		0.0961	0.0961		1,517.8641	1,517.8641	0.0291	0.0278	1,526.8840
Apartments Mid Rise	23.5793	0.2543	2.1730	0.9247	0.0139		0.1757	0.1757		0.1757	0.1757		2,774.0320	2,774.0320	0.0532	0.0509	2,790.5167
City Park	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
Elementary School	2.94375	0.0318	0.2886	0.2424	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.3241	346.3241	6.6400e-003	6.3500e-003	348.3821
Office Park	54.2648	0.5852	5.3201	4.4689	0.0319		0.4043	0.4043		0.4043	0.4043		6,384.0903	6,384.0903	0.1224	0.1170	6,422.0277
Single Family Housing	69.1615	0.7459	6.3737	2.7122	0.0407		0.5153	0.5153		0.5153	0.5153		8,136.6480	8,136.6480	0.1560	0.1492	8,185.0000
Total		1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

6.0 Area Detail

6.1 Mitigation Measures Area

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Unmitigated	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

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	17.2619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	115.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8837	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653		475.9833	475.9833	0.4538		487.3287
Total	140.3029	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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	17.2619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	115.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8837	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653		475.9833	475.9833	0.4538		487.3287
Total	140.3029	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - Phase 1 Construction - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Sacramento Metropolitan AQMD Air District, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	2	No Change	0.00
Excavators	Diesel	No Change	0	12	No Change	0.00
Forklifts	Diesel	No Change	0	6	No Change	0.00
Generator Sets	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	4	No Change	0.00
Paving Equipment	Diesel	No Change	0	4	No Change	0.00
Rollers	Diesel	No Change	0	4	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	8	No Change	0.00
Scrapers	Diesel	No Change	0	29	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	21	No Change	0.00
Welders	Diesel	No Change	0	2	No Change	0.00

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	2.83170E-001	1.89690E+000	3.03784E+000	4.99000E-003	8.38900E-002	8.38900E-002	0.00000E+000	4.28947E+002	4.28947E+002	2.29500E-002	0.00000E+000	4.29520E+002
Cranes	4.57720E-001	4.44193E+000	2.51305E+000	8.65000E-003	1.87020E-001	1.72340E-001	0.00000E+000	7.57920E+002	7.57920E+002	2.23310E-001	0.00000E+000	7.63503E+002
Excavators	6.69800E-002	5.41180E-001	1.17361E+000	1.86000E-003	2.65400E-002	2.44200E-002	0.00000E+000	1.63344E+002	1.63344E+002	5.28300E-002	0.00000E+000	1.64665E+002
Forklifts	4.43890E-001	4.03032E+000	5.74310E+000	7.86000E-003	2.10050E-001	1.93470E-001	0.00000E+000	6.88569E+002	6.88569E+002	2.03430E-001	0.00000E+000	6.93655E+002
Generator Sets	4.41800E-001	3.97518E+000	6.14556E+000	1.10500E-002	1.55580E-001	1.55580E-001	0.00000E+000	9.49549E+002	9.49549E+002	3.48500E-002	0.00000E+000	9.50420E+002
Graders	2.30100E-002	2.79180E-001	1.01560E-001	4.00000E-004	9.05000E-003	8.32000E-003	0.00000E+000	3.48824E+001	3.48824E+001	1.12800E-002	0.00000E+000	3.51645E+001
Pavers	2.25700E-002	2.18040E-001	3.46530E-001	5.60000E-004	1.02200E-002	9.41000E-003	0.00000E+000	4.95532E+001	4.95532E+001	1.60300E-002	0.00000E+000	4.99538E+001
Paving Equipment	2.01500E-002	1.86370E-001	3.07540E-001	4.90000E-004	9.03000E-003	8.31000E-003	0.00000E+000	4.29425E+001	4.29425E+001	1.38900E-002	0.00000E+000	4.32897E+001
Rollers	1.80000E-002	1.88410E-001	2.22150E-001	3.10000E-004	1.01900E-002	9.37000E-003	0.00000E+000	2.76646E+001	2.76646E+001	8.95000E-003	0.00000E+000	2.78883E+001
Rubber Tired Dozers	1.64320E-001	1.71052E+000	7.45520E-001	2.05000E-003	7.70200E-002	7.08600E-002	0.00000E+000	1.80058E+002	1.80058E+002	5.82300E-002	0.00000E+000	1.81514E+002
Scrapers	6.84490E-001	7.20656E+000	5.33920E+000	1.32100E-002	2.82570E-001	2.59960E-001	0.00000E+000	1.16030E+003	1.16030E+003	3.75260E-001	0.00000E+000	1.16968E+003
Tractors/Loaders/Backhoes	6.72550E-001	6.52895E+000	1.08839E+001	1.54100E-002	2.66670E-001	2.45900E-001	0.00000E+000	1.35089E+003	1.35089E+003	4.02700E-001	0.00000E+000	1.36096E+003
Welders	3.65060E-001	2.24281E+000	2.77048E+000	4.29000E-003	6.67600E-002	6.67600E-002	0.00000E+000	3.16211E+002	3.16211E+002	2.97000E-002	0.00000E+000	3.16953E+002

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	2.83170E-001	1.89690E+000	3.03783E+000	4.99000E-003	8.38900E-002	8.38900E-002	0.00000E+000	4.28946E+002	4.28946E+002	2.29500E-002	0.00000E+000	4.29520E+002
Cranes	4.57720E-001	4.44192E+000	2.51305E+000	8.65000E-003	1.87020E-001	1.72340E-001	0.00000E+000	7.57919E+002	7.57919E+002	2.23310E-001	0.00000E+000	7.63502E+002
Excavators	6.69800E-002	5.41180E-001	1.17361E+000	1.86000E-003	2.65400E-002	2.44200E-002	0.00000E+000	1.63344E+002	1.63344E+002	5.28300E-002	0.00000E+000	1.64665E+002
Forklifts	4.43880E-001	4.03031E+000	5.74309E+000	7.86000E-003	2.10050E-001	1.93470E-001	0.00000E+000	6.88568E+002	6.88568E+002	2.03430E-001	0.00000E+000	6.93654E+002
Generator Sets	4.41800E-001	3.97517E+000	6.14555E+000	1.10500E-002	1.55580E-001	1.55580E-001	0.00000E+000	9.49547E+002	9.49547E+002	3.48500E-002	0.00000E+000	9.50419E+002
Graders	2.30100E-002	2.79180E-001	1.01560E-001	4.00000E-004	9.05000E-003	8.32000E-003	0.00000E+000	3.48824E+001	3.48824E+001	1.12800E-002	0.00000E+000	3.51644E+001
Pavers	2.25700E-002	2.18040E-001	3.46530E-001	5.60000E-004	1.02200E-002	9.41000E-003	0.00000E+000	4.95531E+001	4.95531E+001	1.60300E-002	0.00000E+000	4.99538E+001
Paving Equipment	2.01500E-002	1.86370E-001	3.07540E-001	4.90000E-004	9.03000E-003	8.31000E-003	0.00000E+000	4.29424E+001	4.29424E+001	1.38900E-002	0.00000E+000	4.32896E+001
Rollers	1.80000E-002	1.88410E-001	2.22150E-001	3.10000E-004	1.01900E-002	9.37000E-003	0.00000E+000	2.76646E+001	2.76646E+001	8.95000E-003	0.00000E+000	2.78883E+001
Rubber Tired Dozers	1.64320E-001	1.71051E+000	7.45520E-001	2.05000E-003	7.70200E-002	7.08600E-002	0.00000E+000	1.80058E+002	1.80058E+002	5.82300E-002	0.00000E+000	1.81514E+002
Scrapers	6.84480E-001	7.20655E+000	5.33920E+000	1.32100E-002	2.82570E-001	2.59960E-001	0.00000E+000	1.16030E+003	1.16030E+003	3.75260E-001	0.00000E+000	1.16968E+003
Tractors/Loaders/Balckhoes	6.72550E-001	6.52894E+000	1.08839E+001	1.54100E-002	2.66670E-001	2.45900E-001	0.00000E+000	1.35089E+003	1.35089E+003	4.02700E-001	0.00000E+000	1.36096E+003
Welders	3.65060E-001	2.24281E+000	2.77048E+000	4.29000E-003	6.67600E-002	6.67600E-002	0.00000E+000	3.16210E+002	3.16210E+002	2.97000E-002	0.00000E+000	3.16953E+002

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	3.29181E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18896E-006	1.18896E-006	0.00000E+000	0.00000E+000	1.18737E-006
Cranes	0.00000E+000	2.25127E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18746E-006	1.18746E-006	0.00000E+000	0.00000E+000	1.19188E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16319E-006	1.16319E-006	0.00000E+000	0.00000E+000	1.15386E-006
Forklifts	2.25281E-005	2.48119E-006	1.74122E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19088E-006	1.19088E-006	0.00000E+000	0.00000E+000	1.19656E-006
Generator Sets	0.00000E+000	2.51561E-006	1.62719E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19004E-006	1.19004E-006	0.00000E+000	0.00000E+000	1.18895E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14671E-006	1.14671E-006	0.00000E+000	0.00000E+000	1.13751E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21082E-006	1.21082E-006	0.00000E+000	0.00000E+000	1.20111E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16435E-006	1.16435E-006	0.00000E+000	0.00000E+000	1.15501E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08442E-006	1.08442E-006	0.00000E+000	0.00000E+000	1.43429E-006
Rubber Tired Dozers	0.00000E+000	5.84618E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16629E-006	1.16629E-006	0.00000E+000	0.00000E+000	1.15694E-006
Scrapers	1.46094E-005	1.38762E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18935E-006	1.18935E-006	0.00000E+000	0.00000E+000	1.18836E-006
Tractors/Loaders/Balckhoes	0.00000E+000	1.53164E-006	9.18791E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18440E-006	1.18440E-006	0.00000E+000	0.00000E+000	1.19033E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20173E-006	1.20173E-006	0.00000E+000	0.00000E+000	1.19892E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction			

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	3.66	0.97	3.66	0.97	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	22.21	6.00	22.21	6.00	0.00	0.00
Grading	Fugitive Dust	0.58	0.22	0.58	0.22	0.00	0.00
Grading	Roads	0.15	0.04	0.15	0.04	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Site Preparation	Fugitive Dust	1.13	0.60	1.13	0.60	0.00	0.00
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.00	0.00

Operational Percent Reduction Summary

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.81		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

UWSP - Phase 1 Construction**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

UWSP - Phase 1 Construction

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Phase 1 Construction_Mitigated
Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	1,252.00	1000sqft	47.90	1,252,000.00	0
Elementary School	850.00	Student	17.00	71,062.86	0
City Park	33.50	Acre	33.50	1,459,260.00	0
Apartments High Rise	816.00	Dwelling Unit	25.10	816,000.00	2179
Apartments Low Rise	404.00	Dwelling Unit	33.70	404,000.00	1079
Apartments Mid Rise	914.00	Dwelling Unit	40.60	914,000.00	2440
Single Family Housing	1,067.00	Dwelling Unit	173.50	1,920,600.00	2849

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	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 - Lot acreages updated based on preliminary land use summary.

Construction Phase - Construction phase timing adjusted based on applicant-provided information.

Off-road Equipment - Architectural coating equipment doubled.

Off-road Equipment - Building construction phase equipment doubled.

Off-road Equipment - Construction equipment updated per engineer information.

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

Off-road Equipment - Number of equipment has been updated.

Grading -

Construction Off-road Equipment Mitigation - Required by Mitigation to use all Tier 4 Final Equipment.

[illegible]

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	240.00	60.00
tblConstructionPhase	NumDays	620.00	60.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	6,200.00	1,680.00
tblConstructionPhase	NumDays	440.00	1,680.00
tblGrading	AcresOfGrading	1,860.00	390.00
tblGrading	AcresOfGrading	180.00	90.00
tblGrading	MaterialExported	0.00	122,750.00
tblLandUse	LotAcreage	28.74	47.90
tblLandUse	LotAcreage	1.63	17.00
tblLandUse	LotAcreage	13.16	25.10
tblLandUse	LotAcreage	25.25	33.70
tblLandUse	LotAcreage	24.05	40.60
tblLandUse	LotAcreage	346.43	173.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.0461	11.7417	8.7021	0.0240	1.8791	0.4427	2.3218	0.8693	0.4076	1.2769	0.0000	2,165.817 2	2,165.817 2	0.5567	0.0764	2,202.507 9
2024	5.8680	9.0387	15.4022	0.0512	3.5874	0.2211	3.8085	0.9668	0.2083	1.1751	0.0000	4,799.293 4	4,799.293 4	0.2826	0.3146	4,900.120 9
2025	6.5901	9.0860	15.5399	0.0544	4.0187	0.1938	4.2125	1.0829	0.1832	1.2661	0.0000	5,130.544 4	5,130.544 4	0.2625	0.3414	5,238.856 9
2026	6.5195	8.9253	14.9621	0.0531	4.0186	0.1924	4.2110	1.0829	0.1819	1.2647	0.0000	5,031.402 3	5,031.402 3	0.2553	0.3325	5,136.879 5
2027	6.4542	8.7830	14.4686	0.0519	4.0186	0.1909	4.2095	1.0829	0.1805	1.2634	0.0000	4,935.398 4	4,935.398 4	0.2488	0.3240	5,038.160 5
2028	6.3701	8.6317	14.0034	0.0507	4.0031	0.1888	4.1919	1.0787	0.1785	1.2572	0.0000	4,829.200 1	4,829.200 1	0.2423	0.3150	4,929.135 2
2029	6.3367	8.5587	13.7008	0.0498	4.0185	0.1881	4.2066	1.0828	0.1779	1.2607	0.0000	4,767.658 3	4,767.658 3	0.2384	0.3092	4,865.766 1
2030	3.5980	3.9312	7.3650	0.0274	2.2080	0.0436	2.2516	0.5949	0.0425	0.6374	0.0000	2,616.291 3	2,616.291 3	0.0648	0.1652	2,667.135 1
Maximum	6.5901	11.7417	15.5399	0.0544	4.0187	0.4427	4.2125	1.0829	0.4076	1.2769	0.0000	5,130.544 4	5,130.544 4	0.5567	0.3414	5,238.856 9

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2666	2.2349	9.8552	0.0240	1.8791	0.0400	1.9191	0.8693	0.0396	0.9089	0.0000	2,165.815 2	2,165.815 2	0.5567	0.0764	2,202.506 0
2024	5.5278	5.7408	15.8637	0.0512	3.5874	0.0521	3.6395	0.9668	0.0498	1.0166	0.0000	4,799.292 6	4,799.292 6	0.2826	0.3146	4,900.120 1
2025	6.2819	6.1493	15.9050	0.0544	4.0187	0.0544	4.0730	1.0829	0.0519	1.1348	0.0000	5,130.543 6	5,130.543 6	0.2625	0.3414	5,238.856 1
2026	6.2113	5.9886	15.3272	0.0531	4.0186	0.0529	4.0716	1.0829	0.0506	1.1335	0.0000	5,031.401 5	5,031.401 5	0.2553	0.3325	5,136.878 7
2027	6.1461	5.8463	14.8337	0.0519	4.0186	0.0515	4.0700	1.0829	0.0492	1.1321	0.0000	4,935.397 6	4,935.397 6	0.2488	0.3240	5,038.159 7
2028	6.0631	5.7063	14.3671	0.0507	4.0031	0.0499	4.0530	1.0787	0.0477	1.1264	0.0000	4,829.199 3	4,829.199 3	0.2423	0.3150	4,929.134 4
2029	6.0285	5.6220	14.0659	0.0498	4.0185	0.0487	4.0671	1.0828	0.0466	1.1294	0.0000	4,767.657 5	4,767.657 5	0.2384	0.3092	4,865.765 3
2030	3.4433	3.0112	7.5553	0.0274	2.2080	0.0259	2.2339	0.5949	0.0248	0.6197	0.0000	2,616.290 8	2,616.290 8	0.0648	0.1652	2,667.134 6
Maximum	6.2819	6.1493	15.9050	0.0544	4.0187	0.0544	4.0730	1.0829	0.0519	1.1348	0.0000	5,130.543 6	5,130.543 6	0.5567	0.3414	5,238.856 1

	ROG	NOx	CO	SO2	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	6.58	41.34	-3.48	0.00	0.00	77.41	4.37	0.00	76.92	12.77	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	2.7888	0.3611
2	9-1-2023	11-30-2023	9.5219	2.0526
3	12-1-2023	2-29-2024	1.8050	0.7435

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

4	3-1-2024	5-31-2024	4.0930	3.1996
5	6-1-2024	8-31-2024	4.0643	3.1710
6	9-1-2024	11-30-2024	4.0765	3.1929
7	12-1-2024	2-28-2025	3.9667	3.1418
8	3-1-2025	5-31-2025	3.9506	3.1336
9	6-1-2025	8-31-2025	3.9228	3.1059
10	9-1-2025	11-30-2025	3.9348	3.1267
11	12-1-2025	2-28-2026	3.8792	3.0800
12	3-1-2026	5-31-2026	3.8912	3.0742
13	6-1-2026	8-31-2026	3.8641	3.0471
14	9-1-2026	11-30-2026	3.8754	3.0673
15	12-1-2026	2-28-2027	3.8239	3.0246
16	3-1-2027	5-31-2027	3.8379	3.0209
17	6-1-2027	8-31-2027	3.8114	2.9944
18	9-1-2027	11-30-2027	3.8221	3.0140
19	12-1-2027	2-29-2028	3.8174	3.0093
20	3-1-2028	5-31-2028	3.7921	2.9751
21	6-1-2028	8-31-2028	3.7661	2.9491
22	9-1-2028	11-30-2028	3.7764	2.9683
23	12-1-2028	2-28-2029	3.7323	2.9331
24	3-1-2029	5-31-2029	3.7497	2.9327
25	6-1-2029	8-31-2029	3.7239	2.9070
26	9-1-2029	11-30-2029	3.7342	2.9260
27	12-1-2029	2-28-2030	3.4852	2.8934
28	3-1-2030	5-31-2030	3.3873	2.8938
29	6-1-2030	8-31-2030	1.9239	1.6635
		Highest	9.5219	3.1996

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Area	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Energy	0.3619	3.1544	1.7665	0.0197		0.2501	0.2501		0.2501	0.2501	0.0000	9,571.6532	9,571.6532	0.6208	0.1326	9,626.6873
Mobile	9.0125	10.7792	95.4797	0.2015	29.2695	0.0970	29.3665	7.8141	0.0908	7.9049	0.0000	20,537.1235	20,537.1235	1.3004	0.9455	20,851.3887
Waste						0.0000	0.0000		0.0000	0.0000	675.8889	0.0000	675.8889	39.9439	0.0000	1,674.4860
Water						0.0000	0.0000		0.0000	0.0000	153.2461	528.3668	681.6129	0.5762	0.3392	797.0879
Total	34.5264	14.3132	130.1391	0.2230	29.2695	0.5302	29.7997	7.8141	0.5240	8.3381	829.1349	30,691.1191	31,520.2540	42.4927	1.4173	33,004.9120

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Energy	0.3619	3.1544	1.7665	0.0197		0.2501	0.2501		0.2501	0.2501	0.0000	9,571.6532	9,571.6532	0.6208	0.1326	9,626.6873
Mobile	9.0125	10.7792	95.4797	0.2015	29.2695	0.0970	29.3665	7.8141	0.0908	7.9049	0.0000	20,537.1235	20,537.1235	1.3004	0.9455	20,851.3887
Waste						0.0000	0.0000		0.0000	0.0000	675.8889	0.0000	675.8889	39.9439	0.0000	1,674.4860
Water						0.0000	0.0000		0.0000	0.0000	153.2461	528.3668	681.6129	0.5762	0.3392	797.0879
Total	34.5264	14.3132	130.1391	0.2230	29.2695	0.5302	29.7997	7.8141	0.5240	8.3381	829.1349	30,691.1191	31,520.2540	42.4927	1.4173	33,004.9120

	ROG	NOx	CO	SO2	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	6/1/2023	8/23/2023	5	60	
2	Grading	Grading	8/24/2023	11/15/2023	5	60	
3	Paving	Paving	11/16/2023	2/7/2024	5	60	

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

4	Building Construction	Building Construction	2/8/2024	7/17/2030	5	1680
5	Architectural Coating	Architectural Coating	2/22/2024	7/31/2030	5	1680

Acres of Grading (Site Preparation Phase): 90**Acres of Grading (Grading Phase): 390****Acres of Paving: 0****Residential Indoor: 8,210,565; Residential Outdoor: 2,736,855; Non-Residential Indoor: 1,984,594; Non-Residential Outdoor: 661,531; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Excavators	8	8.00	158	0.38
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	6.00	78	0.48

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	14	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	40	100.00	0.00	15,344.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	24	60.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	2,964.00	798.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	593.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1317	0.0000	1.1317	0.6010	0.0000	0.6010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1596	1.6515	1.0947	2.2800e-003		0.0760	0.0760		0.0699	0.0699	0.0000	200.7042	200.7042	0.0649	0.0000	202.3270
Total	0.1596	1.6515	1.0947	2.2800e-003	1.1317	0.0760	1.2077	0.6010	0.0699	0.6709	0.0000	200.7042	200.7042	0.0649	0.0000	202.3270

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0100e-003	1.8600e-003	0.0245	7.0000e-005	7.7100e-003	4.0000e-005	7.7500e-003	2.0500e-003	4.0000e-005	2.0900e-003	0.0000	6.1864	6.1864	2.0000e-004	1.8000e-004	6.2440
Total	3.0100e-003	1.8600e-003	0.0245	7.0000e-005	7.7100e-003	4.0000e-005	7.7500e-003	2.0500e-003	4.0000e-005	2.0900e-003	0.0000	6.1864	6.1864	2.0000e-004	1.8000e-004	6.2440

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					1.1317	0.0000	1.1317	0.6010	0.0000	0.6010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.1211	1.2521	2.2800e-003		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	200.7039	200.7039	0.0649	0.0000	202.3267
Total	0.0279	0.1211	1.2521	2.2800e-003	1.1317	3.7200e-003	1.1354	0.6010	3.7200e-003	0.6047	0.0000	200.7039	200.7039	0.0649	0.0000	202.3267

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0100e-003	1.8600e-003	0.0245	7.0000e-005	7.7100e-003	4.0000e-005	7.7500e-003	2.0500e-003	4.0000e-005	2.0900e-003	0.0000	6.1864	6.1864	2.0000e-004	1.8000e-004	6.2440
Total	3.0100e-003	1.8600e-003	0.0245	7.0000e-005	7.7100e-003	4.0000e-005	7.7500e-003	2.0500e-003	4.0000e-005	2.0900e-003	0.0000	6.1864	6.1864	2.0000e-004	1.8000e-004	6.2440

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5808	0.0000	0.5808	0.2229	0.0000	0.2229	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.7848	8.2374	6.2189	0.0150		0.3268	0.3268		0.3006	0.3006	0.0000	1,319.2625	1,319.2625	0.4267	0.0000	1,329.9294
Total	0.7848	8.2374	6.2189	0.0150	0.5808	0.3268	0.9076	0.2229	0.3006	0.5235	0.0000	1,319.2625	1,319.2625	0.4267	0.0000	1,329.9294

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

3.3 Grading - 2023

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	0.0204	1.2213	0.2453	4.8100e-003	0.1298	8.9100e-003	0.1387	0.0357	8.5200e-003	0.0442	0.0000	476.6650	476.6650	0.0190	0.0756	499.6620
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	8.6100e-003	5.3200e-003	0.0699	1.9000e-004	0.0220	1.2000e-004	0.0222	5.8600e-003	1.1000e-004	5.9700e-003	0.0000	17.6754	17.6754	5.6000e-004	5.1000e-004	17.8400
Total	0.0290	1.2267	0.3152	5.0000e-003	0.1518	9.0300e-003	0.1608	0.0415	8.6300e-003	0.0501	0.0000	494.3404	494.3404	0.0195	0.0761	517.5020

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					0.5808	0.0000	0.5808	0.2229	0.0000	0.2229	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1844	0.7989	7.0361	0.0150		0.0246	0.0246		0.0246	0.0246	0.0000	1,319.2609	1,319.2609	0.4267	0.0000	1,329.9278
Total	0.1844	0.7989	7.0361	0.0150	0.5808	0.0246	0.6054	0.2229	0.0246	0.2474	0.0000	1,319.2609	1,319.2609	0.4267	0.0000	1,329.9278

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

3.3 Grading - 2023

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	0.0204	1.2213	0.2453	4.8100e-003	0.1298	8.9100e-003	0.1387	0.0357	8.5200e-003	0.0442	0.0000	476.6650	476.6650	0.0190	0.0756	499.6620
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	8.6100e-003	5.3200e-003	0.0699	1.9000e-004	0.0220	1.2000e-004	0.0222	5.8600e-003	1.1000e-004	5.9700e-003	0.0000	17.6754	17.6754	5.6000e-004	5.1000e-004	17.8400
Total	0.0290	1.2267	0.3152	5.0000e-003	0.1518	9.0300e-003	0.1608	0.0415	8.6300e-003	0.0501	0.0000	494.3404	494.3404	0.0195	0.0761	517.5020

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0669	0.6226	1.0265	1.5900e-003		0.0309	0.0309		0.0284	0.0284	0.0000	139.6675	139.6675	0.0452	0.0000	140.7968
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0669	0.6226	1.0265	1.5900e-003		0.0309	0.0309		0.0284	0.0284	0.0000	139.6675	139.6675	0.0452	0.0000	140.7968

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2023****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.7000e-003	0.0224	6.0000e-005	7.0500e-003	4.0000e-005	7.0900e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	5.6561	5.6561	1.8000e-004	1.6000e-004	5.7088
Total	2.7500e-003	1.7000e-003	0.0224	6.0000e-005	7.0500e-003	4.0000e-005	7.0900e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	5.6561	5.6561	1.8000e-004	1.6000e-004	5.7088

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	0.0195	0.0847	1.2049	1.5900e-003		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	139.6674	139.6674	0.0452	0.0000	140.7967
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0195	0.0847	1.2049	1.5900e-003		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	139.6674	139.6674	0.0452	0.0000	140.7967

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7500e-003	1.7000e-003	0.0224	6.0000e-005	7.0500e-003	4.0000e-005	7.0900e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	5.6561	5.6561	1.8000e-004	1.6000e-004	5.7088
Total	2.7500e-003	1.7000e-003	0.0224	6.0000e-005	7.0500e-003	4.0000e-005	7.0900e-003	1.8800e-003	3.0000e-005	1.9100e-003	0.0000	5.6561	5.6561	1.8000e-004	1.6000e-004	5.7088

3.4 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0559	0.5049	0.9004	1.3900e-003		0.0246	0.0246		0.0226	0.0226	0.0000	122.2341	122.2341	0.0395	0.0000	123.2224
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0559	0.5049	0.9004	1.3900e-003		0.0246	0.0246		0.0226	0.0226	0.0000	122.2341	122.2341	0.0395	0.0000	123.2224

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2024****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2500e-003	1.3300e-003	0.0182	5.0000e-005	6.1700e-003	3.0000e-005	6.2000e-003	1.6400e-003	3.0000e-005	1.6700e-003	0.0000	4.8256	4.8256	1.4000e-004	1.3000e-004	4.8683
Total	2.2500e-003	1.3300e-003	0.0182	5.0000e-005	6.1700e-003	3.0000e-005	6.2000e-003	1.6400e-003	3.0000e-005	1.6700e-003	0.0000	4.8256	4.8256	1.4000e-004	1.3000e-004	4.8683

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	0.0171	0.0741	1.0543	1.3900e-003		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	122.2339	122.2339	0.0395	0.0000	123.2222
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0171	0.0741	1.0543	1.3900e-003		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	122.2339	122.2339	0.0395	0.0000	123.2222

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2024****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2500e-003	1.3300e-003	0.0182	5.0000e-005	6.1700e-003	3.0000e-005	6.2000e-003	1.6400e-003	3.0000e-005	1.6700e-003	0.0000	4.8256	4.8256	1.4000e-004	1.3000e-004	4.8683
Total	2.2500e-003	1.3300e-003	0.0182	5.0000e-005	6.1700e-003	3.0000e-005	6.2000e-003	1.6400e-003	3.0000e-005	1.6700e-003	0.0000	4.8256	4.8256	1.4000e-004	1.3000e-004	4.8683

3.5 Building Construction - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3444	3.1458	3.7830	6.3100e-003		0.1435	0.1435		0.1350	0.1350	0.0000	542.5269	542.5269	0.1283	0.0000	545.7342
Total	0.3444	3.1458	3.7830	6.3100e-003		0.1435	0.1435		0.1350	0.1350	0.0000	542.5269	542.5269	0.1283	0.0000	545.7342

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****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	0.1164	4.4610	1.3294	0.0175	0.5465	0.0239	0.5704	0.1580	0.0229	0.1808	0.0000	1,698.764 5	1,698.764 5	0.0415	0.2498	1,774.247 1
Worker	0.9301	0.5477	7.5246	0.0213	2.5469	0.0130	2.5599	0.6774	0.0119	0.6893	0.0000	1,992.206 8	1,992.206 8	0.0586	0.0543	2,009.853 2
Total	1.0465	5.0087	8.8540	0.0387	3.0934	0.0368	3.1303	0.8354	0.0348	0.8702	0.0000	3,690.971 4	3,690.971 4	0.1001	0.3041	3,784.100 4

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	0.0767	0.5229	4.0857	6.3100e-003		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	542.5263	542.5263	0.1283	0.0000	545.7336
Total	0.0767	0.5229	4.0857	6.3100e-003		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	542.5263	542.5263	0.1283	0.0000	545.7336

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****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	0.1164	4.4610	1.3294	0.0175	0.5465	0.0239	0.5704	0.1580	0.0229	0.1808	0.0000	1,698.764 5	1,698.764 5	0.0415	0.2498	1,774.247 1
Worker	0.9301	0.5477	7.5246	0.0213	2.5469	0.0130	2.5599	0.6774	0.0119	0.6893	0.0000	1,992.206 8	1,992.206 8	0.0586	0.0543	2,009.853 2
Total	1.0465	5.0087	8.8540	0.0387	3.0934	0.0368	3.1303	0.8354	0.0348	0.8702	0.0000	3,690.971 4	3,690.971 4	0.1001	0.3041	3,784.100 4

3.5 Building Construction - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2025****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	0.1252	4.8746	1.4480	0.0191	0.6095	0.0261	0.6356	0.1762	0.0250	0.2012	0.0000	1,856.442 8	1,856.442 8	0.0453	0.2735	1,939.078 6
Worker	0.9743	0.5481	7.8508	0.0229	2.8408	0.0138	2.8546	0.7556	0.0127	0.7683	0.0000	2,168.337 9	2,168.337 9	0.0594	0.0566	2,186.694 1
Total	1.0995	5.4227	9.2989	0.0420	3.4503	0.0399	3.4902	0.9317	0.0377	0.9694	0.0000	4,024.780 8	4,024.780 8	0.1047	0.3301	4,125.772 7

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	0.0856	0.5833	4.5571	7.0400e-003		0.0107	0.0107		0.0107	0.0107	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
Total	0.0856	0.5833	4.5571	7.0400e-003		0.0107	0.0107		0.0107	0.0107	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2025****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	0.1252	4.8746	1.4480	0.0191	0.6095	0.0261	0.6356	0.1762	0.0250	0.2012	0.0000	1,856.442 8	1,856.442 8	0.0453	0.2735	1,939.078 6
Worker	0.9743	0.5481	7.8508	0.0229	2.8408	0.0138	2.8546	0.7556	0.0127	0.7683	0.0000	2,168.337 9	2,168.337 9	0.0594	0.0566	2,186.694 1
Total	1.0995	5.4227	9.2989	0.0420	3.4503	0.0399	3.4902	0.9317	0.0377	0.9694	0.0000	4,024.780 8	4,024.780 8	0.1047	0.3301	4,125.772 7

3.5 Building Construction - 2026**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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2026****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	0.1208	4.7756	1.4193	0.0187	0.6094	0.0255	0.6349	0.1762	0.0244	0.2005	0.0000	1,819.088 6	1,819.088 6	0.0443	0.2685	1,900.215 9
Worker	0.9191	0.4968	7.3934	0.0222	2.8408	0.0132	2.8540	0.7556	0.0121	0.7677	0.0000	2,116.851 0	2,116.851 0	0.0542	0.0533	2,134.101 5
Total	1.0399	5.2723	8.8127	0.0409	3.4503	0.0386	3.4889	0.9317	0.0365	0.9682	0.0000	3,935.939 6	3,935.939 6	0.0985	0.3219	4,034.317 4

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	0.0856	0.5833	4.5571	7.0400e-003		0.0107	0.0107		0.0107	0.0107	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
Total	0.0856	0.5833	4.5571	7.0400e-003		0.0107	0.0107		0.0107	0.0107	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2026****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	0.1208	4.7756	1.4193	0.0187	0.6094	0.0255	0.6349	0.1762	0.0244	0.2005	0.0000	1,819.0886	1,819.0886	0.0443	0.2685	1,900.2159
Worker	0.9191	0.4968	7.3934	0.0222	2.8408	0.0132	2.8540	0.7556	0.0121	0.7677	0.0000	2,116.8510	2,116.8510	0.0542	0.0533	2,134.1015
Total	1.0399	5.2723	8.8127	0.0409	3.4503	0.0386	3.4889	0.9317	0.0365	0.9682	0.0000	3,935.9396	3,935.9396	0.0985	0.3219	4,034.3174

3.5 Building Construction - 2027**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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2027****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	0.1169	4.6848	1.3947	0.0183	0.6094	0.0249	0.6342	0.1761	0.0238	0.1999	0.0000	1,780.089 2	1,780.089 2	0.0432	0.2633	1,859.618 8
Worker	0.8680	0.4538	7.0026	0.0216	2.8408	0.0125	2.8533	0.7556	0.0115	0.7670	0.0000	2,069.349 9	2,069.349 9	0.0497	0.0506	2,085.669 3
Total	0.9849	5.1386	8.3973	0.0398	3.4502	0.0373	3.4875	0.9317	0.0353	0.9669	0.0000	3,849.439 1	3,849.439 1	0.0929	0.3138	3,945.288 1

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	0.0856	0.5833	4.5571	7.0400e-003		0.0107	0.0107		0.0107	0.0107	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
Total	0.0856	0.5833	4.5571	7.0400e-003		0.0107	0.0107		0.0107	0.0107	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2027****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	0.1169	4.6848	1.3947	0.0183	0.6094	0.0249	0.6342	0.1761	0.0238	0.1999	0.0000	1,780.089 2	1,780.089 2	0.0432	0.2633	1,859.618 8
Worker	0.8680	0.4538	7.0026	0.0216	2.8408	0.0125	2.8533	0.7556	0.0115	0.7670	0.0000	2,069.349 9	2,069.349 9	0.0497	0.0506	2,085.669 3
Total	0.9849	5.1386	8.3973	0.0398	3.4502	0.0373	3.4875	0.9317	0.0353	0.9669	0.0000	3,849.439 1	3,849.439 1	0.0929	0.3138	3,945.288 1

3.5 Building Construction - 2028**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	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9906	602.9906	0.1417	0.0000	606.5342
Total	0.3555	3.2421	4.1820	7.0100e-003		0.1372	0.1372		0.1290	0.1290	0.0000	602.9906	602.9906	0.1417	0.0000	606.5342

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2028****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	0.1130	4.5916	1.3697	0.0178	0.6070	0.0243	0.6312	0.1754	0.0232	0.1986	0.0000	1,736.856 3	1,736.856 3	0.0422	0.2573	1,814.576 0
Worker	0.8181	0.4168	6.6508	0.0209	2.8299	0.0116	2.8416	0.7527	0.0107	0.7634	0.0000	2,019.027 1	2,019.027 1	0.0456	0.0481	2,034.510 5
Total	0.9310	5.0084	8.0205	0.0387	3.4369	0.0359	3.4728	0.9281	0.0339	0.9620	0.0000	3,755.883 3	3,755.883 3	0.0878	0.3054	3,849.086 5

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	0.0852	0.5810	4.5397	7.0100e-003		0.0106	0.0106		0.0106	0.0106	0.0000	602.9899	602.9899	0.1417	0.0000	606.5335
Total	0.0852	0.5810	4.5397	7.0100e-003		0.0106	0.0106		0.0106	0.0106	0.0000	602.9899	602.9899	0.1417	0.0000	606.5335

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2028****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	0.1130	4.5916	1.3697	0.0178	0.6070	0.0243	0.6312	0.1754	0.0232	0.1986	0.0000	1,736.856 3	1,736.856 3	0.0422	0.2573	1,814.576 0
Worker	0.8181	0.4168	6.6508	0.0209	2.8299	0.0116	2.8416	0.7527	0.0107	0.7634	0.0000	2,019.027 1	2,019.027 1	0.0456	0.0481	2,034.510 5
Total	0.9310	5.0084	8.0205	0.0387	3.4369	0.0359	3.4728	0.9281	0.0339	0.9620	0.0000	3,755.883 3	3,755.883 3	0.0878	0.3054	3,849.086 5

3.5 Building Construction - 2029**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	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670
Total	0.3569	3.2546	4.1981	7.0400e-003		0.1377	0.1377		0.1295	0.1295	0.0000	605.3098	605.3098	0.1423	0.0000	608.8670

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****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	0.1102	4.5389	1.3578	0.0175	0.6093	0.0238	0.6331	0.1761	0.0228	0.1989	0.0000	1,709.328 0	1,709.328 0	0.0416	0.2535	1,785.923 5
Worker	0.7756	0.3884	6.3936	0.0204	2.8408	0.0110	2.8518	0.7556	0.0101	0.7657	0.0000	1,988.538 7	1,988.538 7	0.0424	0.0464	2,003.424 7
Total	0.8858	4.9274	7.7514	0.0380	3.4501	0.0348	3.4849	0.9317	0.0329	0.9646	0.0000	3,697.866 7	3,697.866 7	0.0840	0.2999	3,789.348 2

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	0.0856	0.5833	4.5571	7.0400e-003		0.0107	0.0107		0.0107	0.0107	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663
Total	0.0856	0.5833	4.5571	7.0400e-003		0.0107	0.0107		0.0107	0.0107	0.0000	605.3091	605.3091	0.1423	0.0000	608.8663

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****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	0.1102	4.5389	1.3578	0.0175	0.6093	0.0238	0.6331	0.1761	0.0228	0.1989	0.0000	1,709.328 0	1,709.328 0	0.0416	0.2535	1,785.923 5
Worker	0.7756	0.3884	6.3936	0.0204	2.8408	0.0110	2.8518	0.7556	0.0101	0.7657	0.0000	1,988.538 7	1,988.538 7	0.0424	0.0464	2,003.424 7
Total	0.8858	4.9274	7.7514	0.0380	3.4501	0.0348	3.4849	0.9317	0.0329	0.9646	0.0000	3,697.866 7	3,697.866 7	0.0840	0.2999	3,789.348 2

3.5 Building Construction - 2030**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	0.1859	1.1267	2.2943	4.4000e-003		0.0210	0.0210		0.0210	0.0210	0.0000	373.2627	373.2627	0.0150	0.0000	373.6370
Total	0.1859	1.1267	2.2943	4.4000e-003		0.0210	0.0210		0.0210	0.0210	0.0000	373.2627	373.2627	0.0150	0.0000	373.6370

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2030****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	0.0584	2.4343	0.7313	9.3600e-003	0.3315	0.0127	0.3442	0.0958	0.0122	0.1080	0.0000	912.8827	912.8827	0.0223	0.1356	953.8443
Worker	0.3983	0.1976	3.3490	0.0108	1.5456	5.5800e-003	1.5512	0.4111	5.1300e-003	0.4162	0.0000	1,063.5665	1,063.5665	0.0214	0.0244	1,071.3650
Total	0.4566	2.6320	4.0802	0.0202	1.8770	0.0183	1.8953	0.5069	0.0173	0.5242	0.0000	1,976.4493	1,976.4493	0.0437	0.1600	2,025.2093

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	0.0466	0.3173	2.4794	4.4000e-003		5.7900e-003	5.7900e-003		5.7900e-003	5.7900e-003	0.0000	373.2622	373.2622	0.0150	0.0000	373.6366
Total	0.0466	0.3173	2.4794	4.4000e-003		5.7900e-003	5.7900e-003		5.7900e-003	5.7900e-003	0.0000	373.2622	373.2622	0.0150	0.0000	373.6366

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2030

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	0.0584	2.4343	0.7313	9.3600e-003	0.3315	0.0127	0.3442	0.0958	0.0122	0.1080	0.0000	912.8827	912.8827	0.0223	0.1356	953.8443
Worker	0.3983	0.1976	3.3490	0.0108	1.5456	5.5800e-003	1.5512	0.4111	5.1300e-003	0.4162	0.0000	1,063.5665	1,063.5665	0.0214	0.0244	1,071.3650
Total	0.4566	2.6320	4.0802	0.0202	1.8770	0.0183	1.8953	0.5069	0.0173	0.5242	0.0000	1,976.4493	1,976.4493	0.0437	0.1600	2,025.2093

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.2004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.2730	0.4055	6.7000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	57.1929	57.1929	3.2200e-003	0.0000	57.2734
Total	4.2409	0.2730	0.4055	6.7000e-004		0.0137	0.0137		0.0137	0.0137	0.0000	57.1929	57.1929	3.2200e-003	0.0000	57.2734

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1781	0.1049	1.4411	4.0800e-003	0.4878	2.4800e-003	0.4903	0.1297	2.2800e-003	0.1320	0.0000	381.5426	381.5426	0.0112	0.0104	384.9222
Total	0.1781	0.1049	1.4411	4.0800e-003	0.4878	2.4800e-003	0.4903	0.1297	2.2800e-003	0.1320	0.0000	381.5426	381.5426	0.0112	0.0104	384.9222

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	4.2004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6600e-003	0.0288	0.4105	6.7000e-004		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	57.1928	57.1928	3.2200e-003	0.0000	57.2733
Total	4.2071	0.0288	0.4105	6.7000e-004		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004	0.0000	57.1928	57.1928	3.2200e-003	0.0000	57.2733

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1781	0.1049	1.4411	4.0800e-003	0.4878	2.4800e-003	0.4903	0.1297	2.2800e-003	0.1320	0.0000	381.5426	381.5426	0.0112	0.0104	384.9222
Total	0.1781	0.1049	1.4411	4.0800e-003	0.4878	2.4800e-003	0.4903	0.1297	2.2800e-003	0.1320	0.0000	381.5426	381.5426	0.0112	0.0104	384.9222

3.6 Architectural Coating - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1949	0.1097	1.5707	4.5900e-003	0.5684	2.7600e-003	0.5711	0.1512	2.5400e-003	0.1537	0.0000	433.8139	433.8139	0.0119	0.0113	437.4864
Total	0.1949	0.1097	1.5707	4.5900e-003	0.5684	2.7600e-003	0.5711	0.1512	2.5400e-003	0.1537	0.0000	433.8139	433.8139	0.0119	0.0113	437.4864

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7600e-003	0.0336	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	4.9020	0.0336	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1949	0.1097	1.5707	4.5900e-003	0.5684	2.7600e-003	0.5711	0.1512	2.5400e-003	0.1537	0.0000	433.8139	433.8139	0.0119	0.0113	437.4864
Total	0.1949	0.1097	1.5707	4.5900e-003	0.5684	2.7600e-003	0.5711	0.1512	2.5400e-003	0.1537	0.0000	433.8139	433.8139	0.0119	0.0113	437.4864

3.6 Architectural Coating - 2026**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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1839	0.0994	1.4792	4.4400e-003	0.5684	2.6300e-003	0.5710	0.1512	2.4200e-003	0.1536	0.0000	423.5130	423.5130	0.0109	0.0107	426.9643
Total	0.1839	0.0994	1.4792	4.4400e-003	0.5684	2.6300e-003	0.5710	0.1512	2.4200e-003	0.1536	0.0000	423.5130	423.5130	0.0109	0.0107	426.9643

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7600e-003	0.0336	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	4.9020	0.0336	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1839	0.0994	1.4792	4.4400e-003	0.5684	2.6300e-003	0.5710	0.1512	2.4200e-003	0.1536	0.0000	423.5130	423.5130	0.0109	0.0107	426.9643
Total	0.1839	0.0994	1.4792	4.4400e-003	0.5684	2.6300e-003	0.5710	0.1512	2.4200e-003	0.1536	0.0000	423.5130	423.5130	0.0109	0.0107	426.9643

3.6 Architectural Coating - 2027**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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2027****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1737	0.0908	1.4010	4.3100e-003	0.5684	2.4900e-003	0.5709	0.1512	2.2900e-003	0.1535	0.0000	414.0096	414.0096	9.9400e-003	0.0101	417.2746
Total	0.1737	0.0908	1.4010	4.3100e-003	0.5684	2.4900e-003	0.5709	0.1512	2.2900e-003	0.1535	0.0000	414.0096	414.0096	9.9400e-003	0.0101	417.2746

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7600e-003	0.0336	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	4.9020	0.0336	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2027****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1737	0.0908	1.4010	4.3100e-003	0.5684	2.4900e-003	0.5709	0.1512	2.2900e-003	0.1535	0.0000	414.0096	414.0096	9.9400e-003	0.0101	417.2746
Total	0.1737	0.0908	1.4010	4.3100e-003	0.5684	2.4900e-003	0.5709	0.1512	2.2900e-003	0.1535	0.0000	414.0096	414.0096	9.9400e-003	0.0101	417.2746

3.6 Architectural Coating - 2028**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	4.8755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0444	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3846	66.3846	3.6200e-003	0.0000	66.4751
Total	4.9199	0.2978	0.4704	7.7000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.3846	66.3846	3.6200e-003	0.0000	66.4751

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Architectural Coating - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1637	0.0834	1.3306	4.1800e-003	0.5662	2.3300e-003	0.5685	0.1506	2.1400e-003	0.1527	0.0000	403.9417	403.9417	9.1300e-003	9.6300e-003	407.0394
Total	0.1637	0.0834	1.3306	4.1800e-003	0.5662	2.3300e-003	0.5685	0.1506	2.1400e-003	0.1527	0.0000	403.9417	403.9417	9.1300e-003	9.6300e-003	407.0394

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	4.8755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7300e-003	0.0335	0.4764	7.7000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.3845	66.3845	3.6200e-003	0.0000	66.4751
Total	4.8832	0.0335	0.4764	7.7000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.3845	66.3845	3.6200e-003	0.0000	66.4751

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1637	0.0834	1.3306	4.1800e-003	0.5662	2.3300e-003	0.5685	0.1506	2.1400e-003	0.1527	0.0000	403.9417	403.9417	9.1300e-003	9.6300e-003	407.0394
Total	0.1637	0.0834	1.3306	4.1800e-003	0.5662	2.3300e-003	0.5685	0.1506	2.1400e-003	0.1527	0.0000	403.9417	403.9417	9.1300e-003	9.6300e-003	407.0394

3.6 Architectural Coating - 2029**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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0446	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308
Total	4.9388	0.2990	0.4722	7.8000e-004		0.0134	0.0134		0.0134	0.0134	0.0000	66.6399	66.6399	3.6400e-003	0.0000	66.7308

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2029****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1552	0.0777	1.2792	4.0800e-003	0.5684	2.1900e-003	0.5706	0.1512	2.0200e-003	0.1532	0.0000	397.8419	397.8419	8.4800e-003	9.2800e-003	400.8201
Total	0.1552	0.0777	1.2792	4.0800e-003	0.5684	2.1900e-003	0.5706	0.1512	2.0200e-003	0.1532	0.0000	397.8419	397.8419	8.4800e-003	9.2800e-003	400.8201

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	4.8942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7600e-003	0.0336	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307
Total	4.9020	0.0336	0.4783	7.8000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	66.6398	66.6398	3.6400e-003	0.0000	66.7307

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2029****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1552	0.0777	1.2792	4.0800e-003	0.5684	2.1900e-003	0.5706	0.1512	2.0200e-003	0.1532	0.0000	397.8419	397.8419	8.4800e-003	9.2800e-003	400.8201
Total	0.1552	0.0777	1.2792	4.0800e-003	0.5684	2.1900e-003	0.5706	0.1512	2.0200e-003	0.1532	0.0000	397.8419	397.8419	8.4800e-003	9.2800e-003	400.8201

3.6 Architectural Coating - 2030**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	2.8503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1302	0.2733	4.5000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	38.8095	38.8095	1.5700e-003	0.0000	38.8487
Total	2.8702	0.1302	0.2733	4.5000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	38.8095	38.8095	1.5700e-003	0.0000	38.8487

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0853	0.0423	0.7172	2.3200e-003	0.3310	1.1900e-003	0.3322	0.0880	1.1000e-003	0.0891	0.0000	227.7699	227.7699	4.5800e-003	5.2200e-003	229.4400
Total	0.0853	0.0423	0.7172	2.3200e-003	0.3310	1.1900e-003	0.3322	0.0880	1.1000e-003	0.0891	0.0000	227.7699	227.7699	4.5800e-003	5.2200e-003	229.4400

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	2.8503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5200e-003	0.0196	0.2785	4.5000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	38.8094	38.8094	1.5700e-003	0.0000	38.8487
Total	2.8548	0.0196	0.2785	4.5000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	38.8094	38.8094	1.5700e-003	0.0000	38.8487

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0853	0.0423	0.7172	2.3200e-003	0.3310	1.1900e-003	0.3322	0.0880	1.1000e-003	0.0891	0.0000	227.7699	227.7699	4.5800e-003	5.2200e-003	229.4400
Total	0.0853	0.0423	0.7172	2.3200e-003	0.3310	1.1900e-003	0.3322	0.0880	1.1000e-003	0.0891	0.0000	227.7699	227.7699	4.5800e-003	5.2200e-003	229.4400

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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	9.0125	10.7792	95.4797	0.2015	29.2695	0.0970	29.3665	7.8141	0.0908	7.9049	0.0000	20,537.1235	20,537.1235	1.3004	0.9455	20,851.3887
Unmitigated	9.0125	10.7792	95.4797	0.2015	29.2695	0.0970	29.3665	7.8141	0.0908	7.9049	0.0000	20,537.1235	20,537.1235	1.3004	0.9455	20,851.3887

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,631.20	3,696.48	2929.44	9,084,730	9,084,730
Apartments Low Rise	2,957.28	3,288.56	2537.12	7,556,121	7,556,121
Apartments Mid Rise	4,972.16	4,487.74	3738.26	12,129,191	12,129,191
City Park	26.13	65.66	73.37	71,077	71,077
Elementary School	1,606.50	0.00	0.00	2,413,021	2,413,021
Office Park	13,859.64	2,053.28	951.52	22,369,655	22,369,655
Single Family Housing	10,072.48	10,179.18	9122.85	25,538,074	25,538,074
Total	37,125.39	23,770.90	19,352.56	79,161,869	79,161,869

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Low Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
City Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Elementary School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Office Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,989.6443	5,989.6443	0.5522	0.0669	6,023.3923
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	5,989.6443	5,989.6443	0.5522	0.0669	6,023.3923
NaturalGas Mitigated	0.3619	3.1544	1.7665	0.0197		0.2501	0.2501		0.2501	0.2501	0.0000	3,582.0089	3,582.0089	0.0687	0.0657	3,603.2950
NaturalGas Unmitigated	0.3619	3.1544	1.7665	0.0197		0.2501	0.2501		0.2501	0.2501	0.0000	3,582.0089	3,582.0089	0.0687	0.0657	3,603.2950

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Apartments High Rise	7.68364e+006	0.0414	0.3541	0.1507	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	410.0285	410.0285	7.8600e-003	7.5200e-003	412.4651
Apartments Low Rise	4.70917e+006	0.0254	0.2170	0.0923	1.3900e-003		0.0175	0.0175		0.0175	0.0175	0.0000	251.2994	251.2994	4.8200e-003	4.6100e-003	252.7928
Apartments Mid Rise	8.60643e+006	0.0464	0.3966	0.1688	2.5300e-003		0.0321	0.0321		0.0321	0.0321	0.0000	459.2721	459.2721	8.8000e-003	8.4200e-003	462.0013
City Park	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
Elementary School	1.07447e+006	5.7900e-003	0.0527	0.0442	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	57.3378	57.3378	1.1000e-003	1.0500e-003	57.6786
Office Park	1.98066e+007	0.1068	0.9709	0.8156	5.8300e-003		0.0738	0.0738		0.0738	0.0738	0.0000	1,056.9577	1,056.9577	0.0203	0.0194	1,063.2387
Single Family Housing	2.5244e+007	0.1361	1.1632	0.4950	7.4200e-003		0.0941	0.0941		0.0941	0.0941	0.0000	1,347.1133	1,347.1133	0.0258	0.0247	1,355.1185
Total		0.3619	3.1544	1.7665	0.0198		0.2501	0.2501		0.2501	0.2501	0.0000	3,582.0089	3,582.0089	0.0687	0.0657	3,603.2950

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Apartments High Rise	7.68364e+006	0.0414	0.3541	0.1507	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	410.0285	410.0285	7.8600e-003	7.5200e-003	412.4651
Apartments Low Rise	4.70917e+006	0.0254	0.2170	0.0923	1.3900e-003		0.0175	0.0175		0.0175	0.0175	0.0000	251.2994	251.2994	4.8200e-003	4.6100e-003	252.7928
Apartments Mid Rise	8.60643e+006	0.0464	0.3966	0.1688	2.5300e-003		0.0321	0.0321		0.0321	0.0321	0.0000	459.2721	459.2721	8.8000e-003	8.4200e-003	462.0013
City Park	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
Elementary School	1.07447e+006	5.7900e-003	0.0527	0.0442	3.2000e-004		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	57.3378	57.3378	1.1000e-003	1.0500e-003	57.6786
Office Park	1.98066e+007	0.1068	0.9709	0.8156	5.8300e-003		0.0738	0.0738		0.0738	0.0738	0.0000	1,056.9577	1,056.9577	0.0203	0.0194	1,063.2387
Single Family Housing	2.5244e+007	0.1361	1.1632	0.4950	7.4200e-003		0.0941	0.0941		0.0941	0.0941	0.0000	1,347.1133	1,347.1133	0.0258	0.0247	1,355.1185
Total		0.3619	3.1544	1.7665	0.0198		0.2501	0.2501		0.2501	0.2501	0.0000	3,582.0089	3,582.0089	0.0687	0.0657	3,603.2950

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments High Rise	3.17728e+006	515.9165	0.0476	5.7600e-003	518.8233
Apartments Low Rise	1.65316e+006	268.4358	0.0248	3.0000e-003	269.9483
Apartments Mid Rise	3.55886e+006	577.8770	0.0533	6.4600e-003	581.1330
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	504546	81.9267	7.5500e-003	9.2000e-004	82.3883
Office Park	1.95562e+007	3,175.4835	0.2927	0.0355	3,193.3754
Single Family Housing	8.43719e+006	1,370.0048	0.1263	0.0153	1,377.7239
Total		5,989.6443	0.5522	0.0669	6,023.3923

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments High Rise	3.17728e+006	515.9165	0.0476	5.7600e-003	518.8233
Apartments Low Rise	1.65316e+006	268.4358	0.0248	3.0000e-003	269.9483
Apartments Mid Rise	3.55886e+006	577.8770	0.0533	6.4600e-003	581.1330
City Park	0	0.0000	0.0000	0.0000	0.0000
Elementary School	504546	81.9267	7.5500e-003	9.2000e-004	82.3883
Office Park	1.95562e+007	3,175.4835	0.2927	0.0355	3,193.3754
Single Family Housing	8.43719e+006	1,370.0048	0.1263	0.0153	1,377.7239
Total		5,989.6443	0.5522	0.0669	6,023.3923

6.0 Area Detail**6.1 Mitigation Measures Area**

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Unmitigated	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622

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	3.1503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9855	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Total	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Architectural Coating	3.1503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	21.0162					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.9855	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622
Total	25.1520	0.3796	32.8929	1.7500e-003		0.1832	0.1832		0.1832	0.1832	0.0000	53.9756	53.9756	0.0515	0.0000	55.2622

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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	681.6129	0.5762	0.3392	797.0879
Unmitigated	681.6129	0.5762	0.3392	797.0879

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	53.1657 / 33.5175	80.8730	0.0705	0.0416	95.0311
Apartments Low Rise	26.3222 / 16.5944	40.0400	0.0349	0.0206	47.0497
Apartments Mid Rise	59.5508 / 37.5429	90.5856	0.0789	0.0466	106.4442
City Park	0 / 39.9146	22.6843	2.0900e-003	2.5000e-004	22.8121
Elementary School	2.0606 / 5.2987	5.4076	2.9400e-003	1.6400e-003	5.9691
Office Park	222.523 / 136.385	336.2731	0.2947	0.1741	395.5191
Single Family Housing	69.5193 / 43.8274	105.7493	0.0921	0.0544	124.2625
Total		681.6129	0.5762	0.3392	797.0879

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments High Rise	53.1657 / 33.5175	80.8730	0.0705	0.0416	95.0311
Apartments Low Rise	26.3222 / 16.5944	40.0400	0.0349	0.0206	47.0497
Apartments Mid Rise	59.5508 / 37.5429	90.5856	0.0789	0.0466	106.4442
City Park	0 / 39.9146	22.6843	2.0900e-003	2.5000e-004	22.8121
Elementary School	2.0606 / 5.2987	5.4076	2.9400e-003	1.6400e-003	5.9691
Office Park	222.523 / 136.385	336.2731	0.2947	0.1741	395.5191
Single Family Housing	69.5193 / 43.8274	105.7493	0.0921	0.0544	124.2625
Total		681.6129	0.5762	0.3392	797.0879

8.0 Waste Detail**8.1 Mitigation Measures Waste**

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	675.8889	39.9439	0.0000	1,674.4860
Unmitigated	675.8889	39.9439	0.0000	1,674.4860

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	375.36	76.1947	4.5030	0.0000	188.7691
Apartments Low Rise	185.84	37.7238	2.2294	0.0000	93.4592
Apartments Mid Rise	420.44	85.3455	5.0438	0.0000	211.4399
City Park	2.88	0.5846	0.0346	0.0000	1.4484
Elementary School	155.13	31.4900	1.8610	0.0000	78.0151
Office Park	1164.36	236.3546	13.9682	0.0000	585.5584
Single Family Housing	1025.64	208.1957	12.3040	0.0000	515.7959
Total		675.8889	39.9439	0.0000	1,674.486 0

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	375.36	76.1947	4.5030	0.0000	188.7691
Apartments Low Rise	185.84	37.7238	2.2294	0.0000	93.4592
Apartments Mid Rise	420.44	85.3455	5.0438	0.0000	211.4399
City Park	2.88	0.5846	0.0346	0.0000	1.4484
Elementary School	155.13	31.4900	1.8610	0.0000	78.0151
Office Park	1164.36	236.3546	13.9682	0.0000	585.5584
Single Family Housing	1025.64	208.1957	12.3040	0.0000	515.7959
Total		675.8889	39.9439	0.0000	1,674.4860

9.0 Operational Offroad

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Annual

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

UWSP - Phase 1 Construction_Mitigated
Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	1,252.00	1000sqft	47.90	1,252,000.00	0
Elementary School	850.00	Student	17.00	71,062.86	0
City Park	33.50	Acre	33.50	1,459,260.00	0
Apartments High Rise	816.00	Dwelling Unit	25.10	816,000.00	2179
Apartments Low Rise	404.00	Dwelling Unit	33.70	404,000.00	1079
Apartments Mid Rise	914.00	Dwelling Unit	40.60	914,000.00	2440
Single Family Housing	1,067.00	Dwelling Unit	173.50	1,920,600.00	2849

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	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 - Lot acreages updated based on preliminary land use summary.

Construction Phase - Construction phase timing adjusted based on applicant-provided information.

Off-road Equipment - Architectural coating equipment doubled.

Off-road Equipment - Building construction phase equipment doubled.

Off-road Equipment - Construction equipment updated per engineer information.

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

Construction Off-road Equipment Mitigation - Required by Mitigation to use all Tier 4 Final Equipment.

[illegible]

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	240.00	60.00
tblConstructionPhase	NumDays	620.00	60.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	6,200.00	1,680.00
tblConstructionPhase	NumDays	440.00	1,680.00
tblGrading	AcresOfGrading	1,860.00	390.00
tblGrading	AcresOfGrading	180.00	90.00
tblGrading	MaterialExported	0.00	122,750.00
tblLandUse	LotAcreage	28.74	47.90
tblLandUse	LotAcreage	1.63	17.00
tblLandUse	LotAcreage	13.16	25.10
tblLandUse	LotAcreage	25.25	33.70
tblLandUse	LotAcreage	24.05	40.60
tblLandUse	LotAcreage	346.43	173.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	27.1921	313.1819	218.1353	0.6681	37.9895	11.1932	40.5229	20.1038	10.3087	22.4345	0.0000	66,696.5571	66,696.5571	16.3955	2.7938	67,938.9869
2024	53.0253	70.6723	137.0829	0.4481	31.8653	1.7579	33.5499	8.5610	1.6173	10.1534	0.0000	46,350.3214	46,350.3214	3.1233	2.9291	47,279.6726
2025	52.0752	67.3156	130.6709	0.4369	31.8647	1.4844	33.3491	8.5608	1.4030	9.9639	0.0000	45,425.1217	45,425.1217	2.1844	2.8483	46,328.5111
2026	51.4396	66.1643	125.4431	0.4266	31.8643	1.4736	33.3378	8.5606	1.3929	9.9535	0.0000	44,533.1539	44,533.1539	2.1249	2.7752	45,413.2818
2027	50.8546	65.1434	121.0018	0.4168	31.8638	1.4625	33.3263	8.5605	1.3825	9.9430	0.0000	43,672.9565	43,672.9565	2.0711	2.7047	44,530.7302
2028	50.3230	64.2961	117.3142	0.4078	31.8634	1.4516	33.3150	8.5603	1.3723	9.9327	0.0000	42,889.4385	42,889.4385	2.0261	2.6409	43,727.0642
2029	49.8048	63.5325	114.1369	0.3996	31.8630	1.4410	33.3040	8.5602	1.3625	9.9227	0.0000	42,174.4795	42,174.4795	1.9862	2.5829	42,993.8353
2030	49.1103	53.2019	111.5897	0.4003	31.8627	0.6096	32.4723	8.5601	0.5943	9.1544	0.0000	42,216.7210	42,216.7210	0.9740	2.5311	42,995.3507
Maximum	53.0253	313.1819	218.1353	0.6681	37.9895	11.1932	40.5229	20.1038	10.3087	22.4345	0.0000	66,696.5571	66,696.5571	16.3955	2.9291	67,938.9869

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.1764	65.2318	245.3763	0.6681	37.9895	1.1197	38.1150	20.1038	1.1066	20.2292	0.0000	66,696.55 71	66,696.55 71	16.3955	2.7938	67,938.98 68
2024	50.4357	46.0741	139.7143	0.4481	31.8653	0.4256	32.2909	8.5610	0.4063	8.9673	0.0000	46,350.32 14	46,350.32 14	3.1233	2.9291	47,279.67 26
2025	49.7138	44.8122	133.4687	0.4369	31.8647	0.4158	32.2805	8.5608	0.3970	8.9578	0.0000	45,425.12 17	45,425.12 17	2.1844	2.8483	46,328.51 11
2026	49.0781	43.6608	128.2408	0.4266	31.8643	0.4049	32.2692	8.5606	0.3869	8.9475	0.0000	44,533.15 39	44,533.15 39	2.1249	2.7752	45,413.28 18
2027	48.4931	42.6400	123.7996	0.4168	31.8638	0.3939	32.2577	8.5605	0.3765	8.9370	0.0000	43,672.95 65	43,672.95 65	2.0711	2.7047	44,530.73 02
2028	47.9615	41.7927	120.1119	0.4078	31.8634	0.3829	32.2464	8.5603	0.3663	8.9266	0.0000	42,889.43 85	42,889.43 85	2.0261	2.6409	43,727.06 42
2029	47.4434	41.0291	116.9346	0.3996	31.8630	0.3724	32.2354	8.5602	0.3564	8.9166	0.0000	42,174.47 95	42,174.47 95	1.9862	2.5829	42,993.83 53
2030	46.9457	40.3471	114.2655	0.4003	31.8627	0.3622	32.2249	8.5601	0.3470	8.9070	0.0000	42,216.72 09	42,216.72 09	0.9740	2.5311	42,995.35 07
Maximum	50.4357	65.2318	245.3763	0.6681	37.9895	1.1197	38.1150	20.1038	1.1066	20.2292	0.0000	66,696.55 71	66,696.55 71	16.3955	2.9291	67,938.98 68

	ROG	NOx	CO	SO2	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	9.53	52.12	-4.33	0.00	0.00	81.42	3.39	0.00	80.74	9.48	0.00	0.00	0.00	0.00	0.00	0.00

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Energy	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.55 59	21,635.55 59	0.4147	0.3967	21,764.12 52
Mobile	70.3962	62.2346	639.8722	1.3595	190.0352	0.6095	190.6447	50.5937	0.5702	51.1639		152,880.1 138	152,880.1 138	8.7284	6.2916	154,973.2 142
Total	212.6823	82.5558	912.6950	1.4816	190.0352	3.4450	193.4802	50.5937	3.4057	53.9994	0.0000	174,991.6 529	174,991.6 529	9.5969	6.6882	177,224.6 681

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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Energy	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.55 59	21,635.55 59	0.4147	0.3967	21,764.12 52
Mobile	70.3962	62.2346	639.8722	1.3595	190.0352	0.6095	190.6447	50.5937	0.5702	51.1639		152,880.1 138	152,880.1 138	8.7284	6.2916	154,973.2 142
Total	212.6823	82.5558	912.6950	1.4816	190.0352	3.4450	193.4802	50.5937	3.4057	53.9994	0.0000	174,991.6 529	174,991.6 529	9.5969	6.6882	177,224.6 681

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	6/1/2023	8/23/2023	5	60	
2	Grading	Grading	8/24/2023	11/15/2023	5	60	
3	Paving	Paving	11/16/2023	2/7/2024	5	60	
4	Building Construction	Building Construction	2/8/2024	7/17/2030	5	1680	
5	Architectural Coating	Architectural Coating	2/22/2024	7/31/2030	5	1680	

Acres of Grading (Site Preparation Phase): 90**Acres of Grading (Grading Phase): 390****Acres of Paving: 0****Residential Indoor: 8,210,565; Residential Outdoor: 2,736,855; Non-Residential Indoor: 1,984,594; Non-Residential Outdoor: 661,531; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Excavators	8	8.00	158	0.38
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	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	14	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	40	100.00	0.00	15,344.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	24	60.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	2,964.00	798.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	593.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					37.7233	0.0000	37.7233	20.0331	0.0000	20.0331			0.0000			0.0000
Off-Road	5.3189	55.0484	36.4886	0.0761		2.5320	2.5320		2.3295	2.3295		7,374.616 2	7,374.616 2	2.3851		7,434.243 7
Total	5.3189	55.0484	36.4886	0.0761	37.7233	2.5320	40.2553	20.0331	2.3295	22.3626		7,374.616 2	7,374.616 2	2.3851		7,434.243 7

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	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884
Total	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					37.7233	0.0000	37.7233	20.0331	0.0000	20.0331			0.0000			0.0000
Off-Road	0.9312	4.0350	41.7380	0.0761		0.1242	0.1242		0.1242	0.1242	0.0000	7,374.616 2	7,374.616 2	2.3851		7,434.243 7
Total	0.9312	4.0350	41.7380	0.0761	37.7233	0.1242	37.8474	20.0331	0.1242	20.1573	0.0000	7,374.616 2	7,374.616 2	2.3851		7,434.243 7

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	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884
Total	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.3605	0.0000	19.3605	7.4288	0.0000	7.4288			0.0000			0.0000
Off-Road	26.1612	274.5806	207.2964	0.5007		10.8929	10.8929		10.0215	10.0215		48,474.59 89	48,474.59 89	15.6777		48,866.54 06
Total	26.1612	274.5806	207.2964	0.5007	19.3605	10.8929	30.2534	7.4288	10.0215	17.4503		48,474.59 89	48,474.59 89	15.6777		48,866.54 06

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	0.6939	38.4393	8.1136	0.1604	4.4595	0.2964	4.7559	1.2212	0.2836	1.5048		17,510.25 94	17,510.25 94	0.6983	2.7763	18,355.05 08
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	0.3370	0.1619	2.7253	6.9500e-003	0.7607	3.9200e-003	0.7646	0.2018	3.6100e-003	0.2054		711.6989	711.6989	0.0195	0.0175	717.3955
Total	1.0309	38.6012	10.8389	0.1674	5.2202	0.3003	5.5205	1.4229	0.2872	1.7101		18,221.95 83	18,221.95 83	0.7178	2.7938	19,072.44 63

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.3605	0.0000	19.3605	7.4288	0.0000	7.4288			0.0000			0.0000
Off-Road	6.1455	26.6306	234.5374	0.5007		0.8194	0.8194		0.8194	0.8194	0.0000	48,474.5988	48,474.5988	15.6777		48,866.5405
Total	6.1455	26.6306	234.5374	0.5007	19.3605	0.8194	20.1799	7.4288	0.8194	8.2482	0.0000	48,474.5988	48,474.5988	15.6777		48,866.5405

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	0.6939	38.4393	8.1136	0.1604	4.4595	0.2964	4.7559	1.2212	0.2836	1.5048		17,510.2594	17,510.2594	0.6983	2.7763	18,355.0508
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	0.3370	0.1619	2.7253	6.9500e-003	0.7607	3.9200e-003	0.7646	0.2018	3.6100e-003	0.2054		711.6989	711.6989	0.0195	0.0175	717.3955
Total	1.0309	38.6012	10.8389	0.1674	5.2202	0.3003	5.5205	1.4229	0.2872	1.7101		18,221.9583	18,221.9583	0.7178	2.7938	19,072.4463

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757		9,622.319 4	9,622.319 4	3.1121		9,700.120 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757		9,622.319 4	9,622.319 4	3.1121		9,700.120 7

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	0.2022	0.0971	1.6352	4.1700e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		427.0193	427.0193	0.0117	0.0105	430.4373
Total	0.2022	0.0971	1.6352	4.1700e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		427.0193	427.0193	0.0117	0.0105	430.4373

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2211	5.2916	75.3038	0.0994		0.1628	0.1628		0.1628	0.1628	0.0000	9,622.319 4	9,622.319 4	3.1121		9,700.120 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2211	5.2916	75.3038	0.0994		0.1628	0.1628		0.1628	0.1628	0.0000	9,622.319 4	9,622.319 4	3.1121		9,700.120 7

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	0.2022	0.0971	1.6352	4.1700e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		427.0193	427.0193	0.0117	0.0105	430.4373
Total	0.2022	0.0971	1.6352	4.1700e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		427.0193	427.0193	0.0117	0.0105	430.4373

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152		9,624.284 3	9,624.284 3	3.1127		9,702.101 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152		9,624.284 3	9,624.284 3	3.1127		9,702.101 5

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	0.1889	0.0865	1.5179	4.0400e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		416.2517	416.2517	0.0106	9.7600e-003	419.4234
Total	0.1889	0.0865	1.5179	4.0400e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		416.2517	416.2517	0.0106	9.7600e-003	419.4234

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2211	5.2916	75.3038	0.0994		0.1628	0.1628		0.1628	0.1628	0.0000	9,624.284 3	9,624.284 3	3.1127		9,702.101 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2211	5.2916	75.3038	0.0994		0.1628	0.1628		0.1628	0.1628	0.0000	9,624.284 3	9,624.284 3	3.1127		9,702.101 5

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	0.1889	0.0865	1.5179	4.0400e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		416.2517	416.2517	0.0106	9.7600e-003	419.4234
Total	0.1889	0.0865	1.5179	4.0400e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		416.2517	416.2517	0.0106	9.7600e-003	419.4234

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538		5,111.3978	5,111.3978	1.2087		5,141.6153
Total	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538		5,111.3978	5,111.3978	1.2087		5,141.6153

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	1.0214	36.2168	11.1421	0.1491	4.8072	0.2033	5.0105	1.3836	0.1945	1.5781		15,999.2408	15,999.2408	0.3918	2.3507	16,709.5507
Worker	9.3291	4.2750	74.9849	0.1993	22.5471	0.1107	22.6578	5.9808	0.1019	6.0827		20,562.8327	20,562.8327	0.5229	0.4819	20,719.5166
Total	10.3505	40.4918	86.1270	0.3484	27.3543	0.3140	27.6683	7.3644	0.2964	7.6608		36,562.0735	36,562.0735	0.9146	2.8327	37,429.0674

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,111.3978	5,111.3978	1.2087		5,141.6153
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,111.3978	5,111.3978	1.2087		5,141.6153

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	1.0214	36.2168	11.1421	0.1491	4.8072	0.2033	5.0105	1.3836	0.1945	1.5781		15,999.2408	15,999.2408	0.3918	2.3507	16,709.5507
Worker	9.3291	4.2750	74.9849	0.1993	22.5471	0.1107	22.6578	5.9808	0.1019	6.0827		20,562.8327	20,562.8327	0.5229	0.4819	20,719.5166
Total	10.3505	40.4918	86.1270	0.3484	27.3543	0.3140	27.6683	7.3644	0.2964	7.6608		36,562.0735	36,562.0735	0.9146	2.8327	37,429.0674

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9847	35.4796	10.8808	0.1460	4.8067	0.1993	5.0059	1.3834	0.1906	1.5740		15,674.8163	15,674.8163	0.3836	2.3074	16,372.0187
Worker	8.7582	3.8378	69.9982	0.1926	22.5471	0.1058	22.6529	5.9808	0.0974	6.0783		20,060.9225	20,060.9225	0.4734	0.4507	20,207.0575
Total	9.7429	39.3174	80.8790	0.3386	27.3538	0.3051	27.6589	7.3642	0.2880	7.6523		35,735.7388	35,735.7388	0.8571	2.7581	36,579.0763

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9847	35.4796	10.8808	0.1460	4.8067	0.1993	5.0059	1.3834	0.1906	1.5740		15,674.8163	15,674.8163	0.3836	2.3074	16,372.0187
Worker	8.7582	3.8378	69.9982	0.1926	22.5471	0.1058	22.6529	5.9808	0.0974	6.0783		20,060.9225	20,060.9225	0.4734	0.4507	20,207.0575
Total	9.7429	39.3174	80.8790	0.3386	27.3538	0.3051	27.6589	7.3642	0.2880	7.6523		35,735.7388	35,735.7388	0.8571	2.7581	36,579.0763

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9504	34.7576	10.6662	0.1430	4.8062	0.1944	5.0006	1.3832	0.1859	1.5692		15,358.7233	15,358.7233	0.3752	2.2655	16,043.2163
Worker	8.2570	3.4800	65.8207	0.1864	22.5471	0.1009	22.6480	5.9808	0.0929	6.0737		19,581.0538	19,581.0538	0.4309	0.4247	19,718.3959
Total	9.2075	38.2377	76.4869	0.3294	27.3533	0.2953	27.6486	7.3641	0.2788	7.6429		34,939.7771	34,939.7771	0.8061	2.6902	35,761.6122

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9504	34.7576	10.6662	0.1430	4.8062	0.1944	5.0006	1.3832	0.1859	1.5692		15,358.7233	15,358.7233	0.3752	2.2655	16,043.2163
Worker	8.2570	3.4800	65.8207	0.1864	22.5471	0.1009	22.6480	5.9808	0.0929	6.0737		19,581.0538	19,581.0538	0.4309	0.4247	19,718.3959
Total	9.2075	38.2377	76.4869	0.3294	27.3533	0.2953	27.6486	7.3641	0.2788	7.6429		34,939.7771	34,939.7771	0.8061	2.6902	35,761.6122

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9199	34.0960	10.4837	0.1399	4.8057	0.1899	4.9957	1.3831	0.1817	1.5647		15,028.8258	15,028.8258	0.3656	2.2211	15,699.8479
Worker	7.7950	3.1807	62.2720	0.1808	22.5471	0.0954	22.6425	5.9808	0.0878	6.0686		19,139.1620	19,139.1620	0.3941	0.4030	19,269.1018
Total	8.7149	37.2767	72.7556	0.3207	27.3529	0.2853	27.6382	7.3639	0.2695	7.6334		34,167.9879	34,167.9879	0.7597	2.6241	34,968.9497

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9199	34.0960	10.4837	0.1399	4.8057	0.1899	4.9957	1.3831	0.1817	1.5647		15,028.8258	15,028.8258	0.3656	2.2211	15,699.8479
Worker	7.7950	3.1807	62.2720	0.1808	22.5471	0.0954	22.6425	5.9808	0.0878	6.0686		19,139.1620	19,139.1620	0.3941	0.4030	19,269.1018
Total	8.7149	37.2767	72.7556	0.3207	27.3529	0.2853	27.6382	7.3639	0.2695	7.6334		34,167.9879	34,167.9879	0.7597	2.6241	34,968.9497

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8931	33.5448	10.3379	0.1370	4.8053	0.1860	4.9913	1.3829	0.1779	1.5608		14,719.67 93	14,719.67 93	0.3584	2.1789	15,377.95 83
Worker	7.3744	2.9340	59.3206	0.1758	22.5471	0.0896	22.6367	5.9808	0.0824	6.0633		18,743.87 47	18,743.87 47	0.3625	0.3849	18,867.64 41
Total	8.2675	36.4787	69.6585	0.3128	27.3525	0.2755	27.6280	7.3638	0.2603	7.6241		33,463.55 39	33,463.55 39	0.7209	2.5638	34,245.60 24

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8931	33.5448	10.3379	0.1370	4.8053	0.1860	4.9913	1.3829	0.1779	1.5608		14,719.67 93	14,719.67 93	0.3584	2.1789	15,377.95 83
Worker	7.3744	2.9340	59.3206	0.1758	22.5471	0.0896	22.6367	5.9808	0.0824	6.0633		18,743.87 47	18,743.87 47	0.3625	0.3849	18,867.64 41
Total	8.2675	36.4787	69.6585	0.3128	27.3525	0.2755	27.6280	7.3638	0.2603	7.6241		33,463.55 39	33,463.55 39	0.7209	2.5638	34,245.60 24

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.8682	33.0317	10.2117	0.1343	4.8050	0.1822	4.9871	1.3828	0.1743	1.5570		14,430.3756	14,430.3756	0.3519	2.1392	15,076.6485
Worker	6.9634	2.7252	56.7782	0.1712	22.5471	0.0839	22.6311	5.9808	0.0772	6.0581		18,389.1819	18,389.1819	0.3347	0.3697	18,507.7317
Total	7.8315	35.7569	66.9898	0.3055	27.3521	0.2661	27.6182	7.3636	0.2515	7.6151		32,819.5575	32,819.5575	0.6866	2.5089	33,584.3802

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2029****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.8682	33.0317	10.2117	0.1343	4.8050	0.1822	4.9871	1.3828	0.1743	1.5570		14,430.3756	14,430.3756	0.3519	2.1392	15,076.6485
Worker	6.9634	2.7252	56.7782	0.1712	22.5471	0.0839	22.6311	5.9808	0.0772	6.0581		18,389.1819	18,389.1819	0.3347	0.3697	18,507.7317
Total	7.8315	35.7569	66.9898	0.3055	27.3521	0.2661	27.6182	7.3636	0.2515	7.6151		32,819.5575	32,819.5575	0.6866	2.5089	33,584.3802

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2030****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057

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	0.8457	32.5603	10.1123	0.1318	4.8046	0.1784	4.9830	1.3827	0.1707	1.5533		14,164.6038	14,164.6038	0.3465	2.1026	14,799.8467
Worker	6.5674	2.5497	54.6369	0.1672	22.5471	0.0786	22.6257	5.9808	0.0723	6.0532		18,077.4232	18,077.4232	0.3102	0.3571	18,191.5876
Total	7.4130	35.1100	64.7492	0.2990	27.3518	0.2570	27.6088	7.3635	0.2430	7.6065		32,242.0269	32,242.0269	0.6567	2.4597	32,991.4343

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2030

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0619		0.0816	0.0816		0.0816	0.0816	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	0.6557	4.4694	34.9205	0.0619		0.0816	0.0816		0.0816	0.0816	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	0.8457	32.5603	10.1123	0.1318	4.8046	0.1784	4.9830	1.3827	0.1707	1.5533		14,164.6038	14,164.6038	0.3465	2.1026	14,799.8467
Worker	6.5674	2.5497	54.6369	0.1672	22.5471	0.0786	22.6257	5.9808	0.0723	6.0532		18,077.4232	18,077.4232	0.3102	0.3571	18,191.5876
Total	7.4130	35.1100	64.7492	0.2990	27.3518	0.2570	27.6088	7.3635	0.2430	7.6065		32,242.0269	32,242.0269	0.6567	2.4597	32,991.4343

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3615	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.6885
Total	37.8652	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.6885

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	1.8665	0.8553	15.0020	0.0399	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		4,113.9540	4,113.9540	0.1046	0.0964	4,145.3014
Total	1.8665	0.8553	15.0020	0.0399	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		4,113.9540	4,113.9540	0.1046	0.0964	4,145.3014

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2024****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0317		563.6885
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0317		563.6885

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	1.8665	0.8553	15.0020	0.0399	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		4,113.9540	4,113.9540	0.1046	0.0964	4,145.3014
Total	1.8665	0.8553	15.0020	0.0399	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		4,113.9540	4,113.9540	0.1046	0.0964	4,145.3014

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.7522	0.7678	14.0044	0.0385	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		4,013.5381	4,013.5381	0.0947	0.0902	4,042.7750
Total	1.7522	0.7678	14.0044	0.0385	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		4,013.5381	4,013.5381	0.0947	0.0902	4,042.7750

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.7522	0.7678	14.0044	0.0385	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		4,013.5381	4,013.5381	0.0947	0.0902	4,042.7750
Total	1.7522	0.7678	14.0044	0.0385	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		4,013.5381	4,013.5381	0.0947	0.0902	4,042.7750

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.6520	0.6962	13.1686	0.0373	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,917.5320	3,917.5320	0.0862	0.0850	3,945.0097
Total	1.6520	0.6962	13.1686	0.0373	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,917.5320	3,917.5320	0.0862	0.0850	3,945.0097

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2026****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.6520	0.6962	13.1686	0.0373	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,917.5320	3,917.5320	0.0862	0.0850	3,945.0097
Total	1.6520	0.6962	13.1686	0.0373	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,917.5320	3,917.5320	0.0862	0.0850	3,945.0097

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2027****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.5595	0.6364	12.4586	0.0362	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,829.1238	3,829.1238	0.0788	0.0806	3,855.1206
Total	1.5595	0.6364	12.4586	0.0362	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,829.1238	3,829.1238	0.0788	0.0806	3,855.1206

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2027

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.5595	0.6364	12.4586	0.0362	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,829.1238	3,829.1238	0.0788	0.0806	3,855.1206
Total	1.5595	0.6364	12.4586	0.0362	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,829.1238	3,829.1238	0.0788	0.0806	3,855.1206

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.4754	0.5870	11.8681	0.0352	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,750.0397	3,750.0397	0.0725	0.0770	3,774.8019
Total	1.4754	0.5870	11.8681	0.0352	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,750.0397	3,750.0397	0.0725	0.0770	3,774.8019

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.4754	0.5870	11.8681	0.0352	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,750.0397	3,750.0397	0.0725	0.0770	3,774.8019
Total	1.4754	0.5870	11.8681	0.0352	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,750.0397	3,750.0397	0.0725	0.0770	3,774.8019

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2029****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.3931	0.5452	11.3595	0.0343	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,679.0772	3,679.0772	0.0670	0.0740	3,702.7952
Total	1.3931	0.5452	11.3595	0.0343	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,679.0772	3,679.0772	0.0670	0.0740	3,702.7952

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2029****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.3931	0.5452	11.3595	0.0343	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,679.0772	3,679.0772	0.0670	0.0740	3,702.7952
Total	1.3931	0.5452	11.3595	0.0343	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,679.0772	3,679.0772	0.0670	0.0740	3,702.7952

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Architectural Coating - 2030

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	37.7651	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.3139	0.5101	10.9311	0.0335	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,616.7044	3,616.7044	0.0621	0.0714	3,639.5450
Total	1.3139	0.5101	10.9311	0.0335	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,616.7044	3,616.7044	0.0621	0.0714	3,639.5450

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2030****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0228		563.4656
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.3139	0.5101	10.9311	0.0335	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,616.7044	3,616.7044	0.0621	0.0714	3,639.5450
Total	1.3139	0.5101	10.9311	0.0335	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,616.7044	3,616.7044	0.0621	0.0714	3,639.5450

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	70.3962	62.2346	639.8722	1.3595	190.0352	0.6095	190.6447	50.5937	0.5702	51.1639		152,880.1 138	152,880.1 138	8.7284	6.2916	154,973.2 142
Unmitigated	70.3962	62.2346	639.8722	1.3595	190.0352	0.6095	190.6447	50.5937	0.5702	51.1639		152,880.1 138	152,880.1 138	8.7284	6.2916	154,973.2 142

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,631.20	3,696.48	2929.44	9,084,730	9,084,730
Apartments Low Rise	2,957.28	3,288.56	2537.12	7,556,121	7,556,121
Apartments Mid Rise	4,972.16	4,487.74	3738.26	12,129,191	12,129,191
City Park	26.13	65.66	73.37	71,077	71,077
Elementary School	1,606.50	0.00	0.00	2,413,021	2,413,021
Office Park	13,859.64	2,053.28	951.52	22,369,655	22,369,655
Single Family Housing	10,072.48	10,179.18	9122.85	25,538,074	25,538,074
Total	37,125.39	23,770.90	19,352.56	79,161,869	79,161,869

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Low Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
City Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Elementary School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Office Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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					
NaturalGas Mitigated	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252
NaturalGas Unmitigated	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	21051.1	0.2270	1.9400	0.8255	0.0124		0.1569	0.1569		0.1569	0.1569		2,476.5975	2,476.5975	0.0475	0.0454	2,491.3147
Apartments Low Rise	12901.8	0.1391	1.1890	0.5060	7.5900e-003		0.0961	0.0961		0.0961	0.0961		1,517.8641	1,517.8641	0.0291	0.0278	1,526.8840
Apartments Mid Rise	23579.3	0.2543	2.1730	0.9247	0.0139		0.1757	0.1757		0.1757	0.1757		2,774.0320	2,774.0320	0.0532	0.0509	2,790.5167
City Park	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
Elementary School	2943.75	0.0318	0.2886	0.2424	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.3241	346.3241	6.6400e-003	6.3500e-003	348.3821
Office Park	54264.8	0.5852	5.3201	4.4689	0.0319		0.4043	0.4043		0.4043	0.4043		6,384.0903	6,384.0903	0.1224	0.1170	6,422.0277
Single Family Housing	69161.5	0.7459	6.3737	2.7122	0.0407		0.5153	0.5153		0.5153	0.5153		8,136.6480	8,136.6480	0.1560	0.1492	8,185.0000
Total		1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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					
Apartments High Rise	21.0511	0.2270	1.9400	0.8255	0.0124		0.1569	0.1569		0.1569	0.1569		2,476.5975	2,476.5975	0.0475	0.0454	2,491.3147
Apartments Low Rise	12.9018	0.1391	1.1890	0.5060	7.5900e-003		0.0961	0.0961		0.0961	0.0961		1,517.8641	1,517.8641	0.0291	0.0278	1,526.8840
Apartments Mid Rise	23.5793	0.2543	2.1730	0.9247	0.0139		0.1757	0.1757		0.1757	0.1757		2,774.0320	2,774.0320	0.0532	0.0509	2,790.5167
City Park	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
Elementary School	2.94375	0.0318	0.2886	0.2424	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.3241	346.3241	6.6400e-003	6.3500e-003	348.3821
Office Park	54.2648	0.5852	5.3201	4.4689	0.0319		0.4043	0.4043		0.4043	0.4043		6,384.0903	6,384.0903	0.1224	0.1170	6,422.0277
Single Family Housing	69.1615	0.7459	6.3737	2.7122	0.0407		0.5153	0.5153		0.5153	0.5153		8,136.6480	8,136.6480	0.1560	0.1492	8,185.0000
Total		1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

6.0 Area Detail

6.1 Mitigation Measures Area

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Unmitigated	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

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	17.2619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	115.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8837	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653		475.9833	475.9833	0.4538		487.3287
Total	140.3029	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	17.2619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	115.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8837	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653		475.9833	475.9833	0.4538		487.3287
Total	140.3029	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

UWSP - Phase 1 Construction_ Mitigated
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	1,252.00	1000sqft	47.90	1,252,000.00	0
Elementary School	850.00	Student	17.00	71,062.86	0
City Park	33.50	Acre	33.50	1,459,260.00	0
Apartments High Rise	816.00	Dwelling Unit	25.10	816,000.00	2179
Apartments Low Rise	404.00	Dwelling Unit	33.70	404,000.00	1079
Apartments Mid Rise	914.00	Dwelling Unit	40.60	914,000.00	2440
Single Family Housing	1,067.00	Dwelling Unit	173.50	1,920,600.00	2849

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	357.98	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 - Lot acreages updated based on preliminary land use summary.

Construction Phase - Construction phase timing adjusted based on applicant-provided information.

Off-road Equipment - Architectural coating equipment doubled.

Off-road Equipment - Building construction phase equipment doubled.

Off-road Equipment - Construction equipment updated per engineer information.

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

Construction Off-road Equipment Mitigation - Required by Mitigation to use all Tier 4 Final Equipment.

[illegible]

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	240.00	60.00
tblConstructionPhase	NumDays	620.00	60.00
tblConstructionPhase	NumDays	440.00	60.00
tblConstructionPhase	NumDays	6,200.00	1,680.00
tblConstructionPhase	NumDays	440.00	1,680.00
tblGrading	AcresOfGrading	1,860.00	390.00
tblGrading	AcresOfGrading	180.00	90.00
tblGrading	MaterialExported	0.00	122,750.00
tblLandUse	LotAcreage	28.74	47.90
tblLandUse	LotAcreage	1.63	17.00
tblLandUse	LotAcreage	13.16	25.10
tblLandUse	LotAcreage	25.25	33.70
tblLandUse	LotAcreage	24.05	40.60
tblLandUse	LotAcreage	346.43	173.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	27.1208	316.3406	217.9315	0.6674	37.9895	11.1943	40.5229	20.1038	10.3097	22.4345	0.0000	66,627.89 37	66,627.89 37	16.3967	2.7981	67,871.62 92
2024	51.7297	74.5524	126.3548	0.4219	31.8653	1.7579	33.5520	8.5610	1.6173	10.1554	0.0000	43,645.00 37	43,645.00 37	3.1250	3.0191	44,603.63 27
2025	50.8687	71.0302	120.9572	0.4117	31.8647	1.4863	33.3511	8.5608	1.4049	9.9657	0.0000	42,793.88 15	42,793.88 15	2.2756	2.9324	43,724.62 30
2026	50.3156	69.7357	116.5193	0.4022	31.8643	1.4753	33.3396	8.5606	1.3945	9.9552	0.0000	41,971.27 54	41,971.27 54	2.2101	2.8544	42,877.14 62
2027	49.8020	68.5919	112.7121	0.3932	31.8638	1.4641	33.3279	8.5605	1.3840	9.9445	0.0000	41,173.70 75	41,173.70 75	2.1509	2.7798	42,055.86 82
2028	49.3304	67.6439	109.5317	0.3849	31.8634	1.4530	33.3164	8.5603	1.3737	9.9340	0.0000	40,445.30 04	40,445.30 04	2.1009	2.7126	41,306.17 92
2029	48.8719	66.7922	106.7629	0.3773	31.8630	1.4423	33.3053	8.5602	1.3637	9.9239	0.0000	39,778.92 38	39,778.92 38	2.0565	2.6518	40,620.57 13
2030	48.2395	56.3858	104.5597	0.3785	31.8627	0.6107	32.4734	8.5601	0.5954	9.1555	0.0000	39,863.31 25	39,863.31 25	1.0400	2.5977	40,663.42 76
Maximum	51.7297	316.3406	217.9315	0.6674	37.9895	11.1943	40.5229	20.1038	10.3097	22.4345	0.0000	66,627.89 37	66,627.89 37	16.3967	3.0191	67,871.62 92

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.1051	68.3905	245.1725	0.6674	37.9895	1.1209	38.1150	20.1038	1.1077	20.2292	0.0000	66,627.89 37	66,627.89 37	16.3967	2.7981	67,871.62 92
2024	49.1402	49.9542	128.9863	0.4219	31.8653	0.4278	32.2930	8.5610	0.4083	8.9693	0.0000	43,645.00 37	43,645.00 37	3.1250	3.0191	44,603.63 27
2025	48.5073	48.5267	123.7549	0.4117	31.8647	0.4177	32.2824	8.5608	0.3989	8.9597	0.0000	42,793.88 15	42,793.88 15	2.2756	2.9324	43,724.62 30
2026	47.9542	47.2323	119.3170	0.4022	31.8643	0.4067	32.2709	8.5606	0.3885	8.9492	0.0000	41,971.27 54	41,971.27 54	2.2101	2.8544	42,877.14 62
2027	47.4406	46.0885	115.5098	0.3932	31.8638	0.3954	32.2592	8.5605	0.3780	8.9385	0.0000	41,173.70 75	41,173.70 75	2.1509	2.7798	42,055.86 82
2028	46.9689	45.1405	112.3294	0.3849	31.8634	0.3843	32.2478	8.5603	0.3676	8.9280	0.0000	40,445.30 04	40,445.30 04	2.1009	2.7126	41,306.17 92
2029	46.5105	44.2888	109.5606	0.3773	31.8630	0.3736	32.2367	8.5602	0.3577	8.9178	0.0000	39,778.92 38	39,778.92 38	2.0565	2.6518	40,620.57 13
2030	46.0748	43.5310	107.2355	0.3785	31.8627	0.3633	32.2261	8.5601	0.3480	8.9081	0.0000	39,863.31 25	39,863.31 25	1.0400	2.5977	40,663.42 76
Maximum	49.1402	68.3905	245.1725	0.6674	37.9895	1.1209	38.1150	20.1038	1.1077	20.2292	0.0000	66,627.89 37	66,627.89 37	16.3967	3.0191	67,871.62 92

	ROG	NOx	CO	SO2	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	9.72	50.30	-4.58	0.00	0.00	81.37	3.39	0.00	80.69	9.48	0.00	0.00	0.00	0.00	0.00	0.00

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Energy	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.55 59	21,635.55 59	0.4147	0.3967	21,764.12 52
Mobile	54.0546	72.3602	641.9886	1.2407	190.0352	0.6099	190.6451	50.5937	0.5706	51.1643		139,391.6 327	139,391.6 327	9.4814	6.8596	141,672.8 134
Total	196.3407	92.6814	914.8114	1.3628	190.0352	3.4455	193.4807	50.5937	3.4061	53.9998	0.0000	161,503.1 719	161,503.1 719	10.3499	7.2562	163,924.2 673

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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Energy	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.55 59	21,635.55 59	0.4147	0.3967	21,764.12 52
Mobile	54.0546	72.3602	641.9886	1.2407	190.0352	0.6099	190.6451	50.5937	0.5706	51.1643		139,391.6 327	139,391.6 327	9.4814	6.8596	141,672.8 134
Total	196.3407	92.6814	914.8114	1.3628	190.0352	3.4455	193.4807	50.5937	3.4061	53.9998	0.0000	161,503.1 719	161,503.1 719	10.3499	7.2562	163,924.2 673

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	6/1/2023	8/23/2023	5	60	
2	Grading	Grading	8/24/2023	11/15/2023	5	60	
3	Paving	Paving	11/16/2023	2/7/2024	5	60	
4	Building Construction	Building Construction	2/8/2024	7/17/2030	5	1680	
5	Architectural Coating	Architectural Coating	2/22/2024	7/31/2030	5	1680	

Acres of Grading (Site Preparation Phase): 90**Acres of Grading (Grading Phase): 390****Acres of Paving: 0****Residential Indoor: 8,210,565; Residential Outdoor: 2,736,855; Non-Residential Indoor: 1,984,594; Non-Residential Outdoor: 661,531; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	6	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	8	8.00	97	0.37
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Excavators	8	8.00	158	0.38
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	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	14	35.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	40	100.00	0.00	15,344.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	24	60.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	2,964.00	798.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	593.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					37.7233	0.0000	37.7233	20.0331	0.0000	20.0331			0.0000			0.0000
Off-Road	5.3189	55.0484	36.4886	0.0761		2.5320	2.5320		2.3295	2.3295		7,374.616 2	7,374.616 2	2.3851		7,434.243 7
Total	5.3189	55.0484	36.4886	0.0761	37.7233	2.5320	40.2553	20.0331	2.3295	22.3626		7,374.616 2	7,374.616 2	2.3851		7,434.243 7

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	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649
Total	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					37.7233	0.0000	37.7233	20.0331	0.0000	20.0331			0.0000			0.0000
Off-Road	0.9312	4.0350	41.7380	0.0761		0.1242	0.1242		0.1242	0.1242	0.0000	7,374.616 2	7,374.616 2	2.3851		7,434.243 7
Total	0.9312	4.0350	41.7380	0.0761	37.7233	0.1242	37.8474	20.0331	0.1242	20.1573	0.0000	7,374.616 2	7,374.616 2	2.3851		7,434.243 7

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	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649
Total	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.3605	0.0000	19.3605	7.4288	0.0000	7.4288			0.0000			0.0000
Off-Road	26.1612	274.5806	207.2964	0.5007		10.8929	10.8929		10.0215	10.0215		48,474.59 89	48,474.59 89	15.6777		48,866.54 06
Total	26.1612	274.5806	207.2964	0.5007	19.3605	10.8929	30.2534	7.4288	10.0215	17.4503		48,474.59 89	48,474.59 89	15.6777		48,866.54 06

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	0.6612	41.5613	8.2615	0.1605	4.4595	0.2975	4.7570	1.2212	0.2847	1.5058		17,520.21 67	17,520.21 67	0.6966	2.7780	18,365.47 46
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	0.2984	0.1987	2.3736	6.1900e-003	0.7607	3.9200e-003	0.7646	0.2018	3.6100e-003	0.2054		633.0781	633.0781	0.0225	0.0201	639.6141
Total	0.9596	41.7600	10.6351	0.1667	5.2202	0.3015	5.5216	1.4229	0.2883	1.7112		18,153.29 48	18,153.29 48	0.7191	2.7981	19,005.08 87

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.3605	0.0000	19.3605	7.4288	0.0000	7.4288			0.0000			0.0000
Off-Road	6.1455	26.6306	234.5374	0.5007		0.8194	0.8194		0.8194	0.8194	0.0000	48,474.5988	48,474.5988	15.6777		48,866.5405
Total	6.1455	26.6306	234.5374	0.5007	19.3605	0.8194	20.1799	7.4288	0.8194	8.2482	0.0000	48,474.5988	48,474.5988	15.6777		48,866.5405

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	0.6612	41.5613	8.2615	0.1605	4.4595	0.2975	4.7570	1.2212	0.2847	1.5058		17,520.2167	17,520.2167	0.6966	2.7780	18,365.4746
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	0.2984	0.1987	2.3736	6.1900e-003	0.7607	3.9200e-003	0.7646	0.2018	3.6100e-003	0.2054		633.0781	633.0781	0.0225	0.0201	639.6141
Total	0.9596	41.7600	10.6351	0.1667	5.2202	0.3015	5.5216	1.4229	0.2883	1.7112		18,153.2948	18,153.2948	0.7191	2.7981	19,005.0887

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757		9,622.319 4	9,622.319 4	3.1121		9,700.120 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	4.1803	38.9150	64.1558	0.0994		1.9301	1.9301		1.7757	1.7757		9,622.319 4	9,622.319 4	3.1121		9,700.120 7

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	0.1791	0.1192	1.4241	3.7100e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		379.8469	379.8469	0.0135	0.0120	383.7685
Total	0.1791	0.1192	1.4241	3.7100e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		379.8469	379.8469	0.0135	0.0120	383.7685

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.4 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2211	5.2916	75.3038	0.0994		0.1628	0.1628		0.1628	0.1628	0.0000	9,622.319 4	9,622.319 4	3.1121		9,700.120 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2211	5.2916	75.3038	0.0994		0.1628	0.1628		0.1628	0.1628	0.0000	9,622.319 4	9,622.319 4	3.1121		9,700.120 7

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	0.1791	0.1192	1.4241	3.7100e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		379.8469	379.8469	0.0135	0.0120	383.7685
Total	0.1791	0.1192	1.4241	3.7100e-003	0.4564	2.3500e-003	0.4588	0.1211	2.1700e-003	0.1232		379.8469	379.8469	0.0135	0.0120	383.7685

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152		9,624.284 3	9,624.284 3	3.1127		9,702.101 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.9940	36.0650	64.3143	0.0994		1.7557	1.7557		1.6152	1.6152		9,624.284 3	9,624.284 3	3.1127		9,702.101 5

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	0.1676	0.1061	1.3283	3.5900e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		370.3903	370.3903	0.0123	0.0112	374.0289
Total	0.1676	0.1061	1.3283	3.5900e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		370.3903	370.3903	0.0123	0.0112	374.0289

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.4 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2211	5.2916	75.3038	0.0994		0.1628	0.1628		0.1628	0.1628	0.0000	9,624.284 3	9,624.284 3	3.1127		9,702.101 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2211	5.2916	75.3038	0.0994		0.1628	0.1628		0.1628	0.1628	0.0000	9,624.284 3	9,624.284 3	3.1127		9,702.101 5

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	0.1676	0.1061	1.3283	3.5900e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		370.3903	370.3903	0.0123	0.0112	374.0289
Total	0.1676	0.1061	1.3283	3.5900e-003	0.4564	2.2400e-003	0.4587	0.1211	2.0600e-003	0.1231		370.3903	370.3903	0.0123	0.0112	374.0289

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538		5,111.3978	5,111.3978	1.2087		5,141.6153
Total	2.9431	26.8876	32.3336	0.0539		1.2266	1.2266		1.1538	1.1538		5,111.3978	5,111.3978	1.2087		5,141.6153

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	0.9859	38.9364	11.6558	0.1492	4.8072	0.2054	5.0126	1.3836	0.1965	1.5801		16,012.7390	16,012.7390	0.3899	2.3563	16,724.6490
Worker	8.2792	5.2421	65.6173	0.1774	22.5471	0.1107	22.6578	5.9808	0.1019	6.0827		18,297.2802	18,297.2802	0.6055	0.5524	18,477.0276
Total	9.2651	44.1785	77.2731	0.3266	27.3543	0.3161	27.6704	7.3644	0.2984	7.6629		34,310.0192	34,310.0192	0.9954	2.9086	35,201.6766

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,111.3978	5,111.3978	1.2087		5,141.6153
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,111.3978	5,111.3978	1.2087		5,141.6153

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	0.9859	38.9364	11.6558	0.1492	4.8072	0.2054	5.0126	1.3836	0.1965	1.5801		16,012.7390	16,012.7390	0.3899	2.3563	16,724.6490
Worker	8.2792	5.2421	65.6173	0.1774	22.5471	0.1107	22.6578	5.9808	0.1019	6.0827		18,297.2802	18,297.2802	0.6055	0.5524	18,477.0276
Total	9.2651	44.1785	77.2731	0.3266	27.3543	0.3161	27.6704	7.3644	0.2984	7.6629		34,310.0192	34,310.0192	0.9954	2.9086	35,201.6766

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9488	38.1552	11.3812	0.1462	4.8067	0.2012	5.0079	1.3834	0.1925	1.5759		15,689.8091	15,689.8091	0.3818	2.3128	16,388.5703
Worker	7.7827	4.7035	61.4869	0.1714	22.5471	0.1058	22.6529	5.9808	0.0974	6.0783		17,855.8523	17,855.8523	0.5509	0.5163	18,023.4806
Total	8.7315	42.8587	72.8681	0.3175	27.3538	0.3070	27.6608	7.3642	0.2899	7.6541		33,545.6614	33,545.6614	0.9327	2.8291	34,412.0508

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9488	38.1552	11.3812	0.1462	4.8067	0.2012	5.0079	1.3834	0.1925	1.5759		15,689.8091	15,689.8091	0.3818	2.3128	16,388.5703
Worker	7.7827	4.7035	61.4869	0.1714	22.5471	0.1058	22.6529	5.9808	0.0974	6.0783		17,855.8523	17,855.8523	0.5509	0.5163	18,023.4806
Total	8.7315	42.8587	72.8681	0.3175	27.3538	0.3070	27.6608	7.3642	0.2899	7.6541		33,545.6614	33,545.6614	0.9327	2.8291	34,412.0508

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.9137	37.3895	11.1518	0.1432	4.8062	0.1961	5.0023	1.3832	0.1876	1.5708		15,375.0585	15,375.0585	0.3733	2.2708	16,061.0794
Worker	7.3511	4.2630	57.9800	0.1660	22.5471	0.1009	22.6480	5.9808	0.0929	6.0737		17,432.6632	17,432.6632	0.5035	0.4864	17,590.1833
Total	8.2648	41.6525	69.1318	0.3091	27.3533	0.2970	27.6503	7.3641	0.2805	7.6445		32,807.7217	32,807.7217	0.8768	2.7571	33,651.2628

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.9137	37.3895	11.1518	0.1432	4.8062	0.1961	5.0023	1.3832	0.1876	1.5708		15,375.05 85	15,375.05 85	0.3733	2.2708	16,061.07 94
Worker	7.3511	4.2630	57.9800	0.1660	22.5471	0.1009	22.6480	5.9808	0.0929	6.0737		17,432.66 32	17,432.66 32	0.5035	0.4864	17,590.18 33
Total	8.2648	41.6525	69.1318	0.3091	27.3533	0.2970	27.6503	7.3641	0.2805	7.6445		32,807.72 17	32,807.72 17	0.8768	2.7571	33,651.26 28

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8824	36.6878	10.9550	0.1401	4.8057	0.1915	4.9972	1.3831	0.1832	1.5662		15,046.28 75	15,046.28 75	0.3637	2.2263	15,718.81 34
Worker	6.9492	3.8945	54.9716	0.1610	22.5471	0.0954	22.6425	5.9808	0.0878	6.0686		17,042.02 10	17,042.02 10	0.4622	0.4613	17,191.02 91
Total	7.8316	40.5824	65.9265	0.3011	27.3529	0.2868	27.6397	7.3639	0.2709	7.6349		32,088.30 85	32,088.30 85	0.8259	2.6875	32,909.84 25

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.8824	36.6878	10.9550	0.1401	4.8057	0.1915	4.9972	1.3831	0.1832	1.5662		15,046.2875	15,046.2875	0.3637	2.2263	15,718.8134
Worker	6.9492	3.8945	54.9716	0.1610	22.5471	0.0954	22.6425	5.9808	0.0878	6.0686		17,042.0210	17,042.0210	0.4622	0.4613	17,191.0291
Total	7.8316	40.5824	65.9265	0.3011	27.3529	0.2868	27.6397	7.3639	0.2709	7.6349		32,088.3085	32,088.3085	0.8259	2.6875	32,909.8425

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.8548	36.1044	10.7955	0.1372	4.8053	0.1874	4.9927	1.3829	0.1792	1.5622		14,738.0678	14,738.0678	0.3565	2.1841	15,397.8323
Worker	6.5792	3.5907	52.4542	0.1565	22.5471	0.0896	22.6367	5.9808	0.0824	6.0633		16,691.8846	16,691.8846	0.4265	0.4404	16,833.7927
Total	7.4340	39.6951	63.2497	0.2937	27.3525	0.2769	27.6294	7.3638	0.2617	7.6254		31,429.9524	31,429.9524	0.7830	2.6245	32,231.6249

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2028

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.948 7	5,112.948 7	1.2019		5,142.996 1

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	0.8548	36.1044	10.7955	0.1372	4.8053	0.1874	4.9927	1.3829	0.1792	1.5622		14,738.06 78	14,738.06 78	0.3565	2.1841	15,397.83 23
Worker	6.5792	3.5907	52.4542	0.1565	22.5471	0.0896	22.6367	5.9808	0.0824	6.0633		16,691.88 46	16,691.88 46	0.4265	0.4404	16,833.79 27
Total	7.4340	39.6951	63.2497	0.2937	27.3525	0.2769	27.6294	7.3638	0.2617	7.6254		31,429.95 24	31,429.95 24	0.7830	2.6245	32,231.62 49

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961
Total	2.7348	24.9394	32.1693	0.0539		1.0551	1.0551		0.9925	0.9925		5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.8291	35.5615	10.6561	0.1345	4.8050	0.1834	4.9884	1.3828	0.1755	1.5583		14,449.5918	14,449.5918	0.3499	2.1443	15,097.3378
Worker	6.2185	3.3334	50.2632	0.1525	22.5471	0.0839	22.6311	5.9808	0.0772	6.0581		16,376.9852	16,376.9852	0.3949	0.4229	16,512.8828
Total	7.0477	38.8949	60.9193	0.2870	27.3521	0.2674	27.6194	7.3636	0.2527	7.6163		30,826.5769	30,826.5769	0.7449	2.5672	31,610.2206

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2029

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961
Total	0.6557	4.4694	34.9205	0.0539		0.0816	0.0816		0.0816	0.0816	0.0000	5,112.9487	5,112.9487	1.2019		5,142.9961

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	0.8291	35.5615	10.6561	0.1345	4.8050	0.1834	4.9884	1.3828	0.1755	1.5583		14,449.5918	14,449.5918	0.3499	2.1443	15,097.3378
Worker	6.2185	3.3334	50.2632	0.1525	22.5471	0.0839	22.6311	5.9808	0.0772	6.0581		16,376.9852	16,376.9852	0.3949	0.4229	16,512.8828
Total	7.0477	38.8949	60.9193	0.2870	27.3521	0.2674	27.6194	7.3636	0.2527	7.6163		30,826.5769	30,826.5769	0.7449	2.5672	31,610.2206

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057

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	0.8058	35.0632	10.5443	0.1320	4.8046	0.1795	4.9842	1.3827	0.1717	1.5544		14,184.6255	14,184.6255	0.3445	2.1077	14,821.3373
Worker	5.8750	3.1172	48.4189	0.1489	22.5471	0.0786	22.6257	5.9808	0.0723	6.0532		16,099.6759	16,099.6759	0.3669	0.4083	16,230.5199
Total	6.6807	38.1804	58.9632	0.2809	27.3518	0.2581	27.6099	7.3635	0.2441	7.6076		30,284.3014	30,284.3014	0.7114	2.5160	31,051.8571

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2030****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6557	4.4694	34.9205	0.0619		0.0816	0.0816		0.0816	0.0816	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	0.6557	4.4694	34.9205	0.0619		0.0816	0.0816		0.0816	0.0816	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	0.8058	35.0632	10.5443	0.1320	4.8046	0.1795	4.9842	1.3827	0.1717	1.5544		14,184.6255	14,184.6255	0.3445	2.1077	14,821.3373
Worker	5.8750	3.1172	48.4189	0.1489	22.5471	0.0786	22.6257	5.9808	0.0723	6.0532		16,099.6759	16,099.6759	0.3669	0.4083	16,230.5199
Total	6.6807	38.1804	58.9632	0.2809	27.3518	0.2581	27.6099	7.3635	0.2441	7.6076		30,284.3014	30,284.3014	0.7114	2.5160	31,051.8571

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3615	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.6885
Total	37.8652	2.4376	3.6203	5.9400e-003		0.1218	0.1218		0.1218	0.1218		562.8961	562.8961	0.0317		563.6885

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	1.6564	1.0488	13.1279	0.0355	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		3,660.6907	3,660.6907	0.1211	0.1105	3,696.6523
Total	1.6564	1.0488	13.1279	0.0355	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		3,660.6907	3,660.6907	0.1211	0.1105	3,696.6523

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0317		563.6885
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0317		563.6885

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	1.6564	1.0488	13.1279	0.0355	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		3,660.6907	3,660.6907	0.1211	0.1105	3,696.6523
Total	1.6564	1.0488	13.1279	0.0355	4.5110	0.0221	4.5331	1.1966	0.0204	1.2170		3,660.6907	3,660.6907	0.1211	0.1105	3,696.6523

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.5571	0.9410	12.3015	0.0343	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		3,572.3753	3,572.3753	0.1102	0.1033	3,605.9123
Total	1.5571	0.9410	12.3015	0.0343	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		3,572.3753	3,572.3753	0.1102	0.1033	3,605.9123

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.5571	0.9410	12.3015	0.0343	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		3,572.3753	3,572.3753	0.1102	0.1033	3,605.9123
Total	1.5571	0.9410	12.3015	0.0343	4.5110	0.0212	4.5321	1.1966	0.0195	1.2161		3,572.3753	3,572.3753	0.1102	0.1033	3,605.9123

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2026

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.4707	0.8529	11.5999	0.0332	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,487.7089	3,487.7089	0.1007	0.0973	3,519.2236
Total	1.4707	0.8529	11.5999	0.0332	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,487.7089	3,487.7089	0.1007	0.0973	3,519.2236

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2026

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.4707	0.8529	11.5999	0.0332	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,487.7089	3,487.7089	0.1007	0.0973	3,519.2236
Total	1.4707	0.8529	11.5999	0.0332	4.5110	0.0202	4.5311	1.1966	0.0186	1.2152		3,487.7089	3,487.7089	0.1007	0.0973	3,519.2236

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2027

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.3903	0.7792	10.9980	0.0322	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,409.5541	3,409.5541	0.0925	0.0923	3,439.3658
Total	1.3903	0.7792	10.9980	0.0322	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,409.5541	3,409.5541	0.0925	0.0923	3,439.3658

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2027

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.3903	0.7792	10.9980	0.0322	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,409.5541	3,409.5541	0.0925	0.0923	3,439.3658
Total	1.3903	0.7792	10.9980	0.0322	4.5110	0.0191	4.5300	1.1966	0.0176	1.2141		3,409.5541	3,409.5541	0.0925	0.0923	3,439.3658

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.3163	0.7184	10.4944	0.0313	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,339.5032	3,339.5032	0.0853	0.0881	3,367.8944
Total	1.3163	0.7184	10.4944	0.0313	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,339.5032	3,339.5032	0.0853	0.0881	3,367.8944

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2028****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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.3163	0.7184	10.4944	0.0313	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,339.503 2	3,339.503 2	0.0853	0.0881	3,367.894 4
Total	1.3163	0.7184	10.4944	0.0313	4.5110	0.0179	4.5289	1.1966	0.0165	1.2131		3,339.503 2	3,339.503 2	0.0853	0.0881	3,367.894 4

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2029

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3417	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637
Total	37.8453	2.2910	3.6183	5.9400e-003		0.1030	0.1030		0.1030	0.1030		562.8961	562.8961	0.0307		563.6637

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	1.2441	0.6669	10.0560	0.0305	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,276.5021	3,276.5021	0.0790	0.0846	3,303.6908
Total	1.2441	0.6669	10.0560	0.0305	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,276.5021	3,276.5021	0.0790	0.0846	3,303.6908

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2029

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0307		563.6637

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	1.2441	0.6669	10.0560	0.0305	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,276.5021	3,276.5021	0.0790	0.0846	3,303.6908
Total	1.2441	0.6669	10.0560	0.0305	4.5110	0.0168	4.5277	1.1966	0.0155	1.2120		3,276.5021	3,276.5021	0.0790	0.0846	3,303.6908

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2030

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	37.7651	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.1754	0.6237	9.6871	0.0298	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,221.0215	3,221.0215	0.0734	0.0817	3,247.1992
Total	1.1754	0.6237	9.6871	0.0298	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,221.0215	3,221.0215	0.0734	0.0817	3,247.1992

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Architectural Coating - 2030

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	37.5036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0228		563.4656
Total	37.5631	0.2575	3.6648	5.9400e-003		7.9200e-003	7.9200e-003		7.9200e-003	7.9200e-003	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.1754	0.6237	9.6871	0.0298	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,221.0215	3,221.0215	0.0734	0.0817	3,247.1992
Total	1.1754	0.6237	9.6871	0.0298	4.5110	0.0157	4.5267	1.1966	0.0145	1.2110		3,221.0215	3,221.0215	0.0734	0.0817	3,247.1992

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	54.0546	72.3602	641.9886	1.2407	190.0352	0.6099	190.6451	50.5937	0.5706	51.1643		139,391.6 327	139,391.6 327	9.4814	6.8596	141,672.8 134
Unmitigated	54.0546	72.3602	641.9886	1.2407	190.0352	0.6099	190.6451	50.5937	0.5706	51.1643		139,391.6 327	139,391.6 327	9.4814	6.8596	141,672.8 134

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	3,631.20	3,696.48	2929.44	9,084,730	9,084,730
Apartments Low Rise	2,957.28	3,288.56	2537.12	7,556,121	7,556,121
Apartments Mid Rise	4,972.16	4,487.74	3738.26	12,129,191	12,129,191
City Park	26.13	65.66	73.37	71,077	71,077
Elementary School	1,606.50	0.00	0.00	2,413,021	2,413,021
Office Park	13,859.64	2,053.28	951.52	22,369,655	22,369,655
Single Family Housing	10,072.48	10,179.18	9122.85	25,538,074	25,538,074
Total	37,125.39	23,770.90	19,352.56	79,161,869	79,161,869

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, Winter

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Low Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
City Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Elementary School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Office Park	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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					
NaturalGas Mitigated	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252
NaturalGas Unmitigated	1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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					
Apartments High Rise	21051.1	0.2270	1.9400	0.8255	0.0124		0.1569	0.1569		0.1569	0.1569		2,476.5975	2,476.5975	0.0475	0.0454	2,491.3147
Apartments Low Rise	12901.8	0.1391	1.1890	0.5060	7.5900e-003		0.0961	0.0961		0.0961	0.0961		1,517.8641	1,517.8641	0.0291	0.0278	1,526.8840
Apartments Mid Rise	23579.3	0.2543	2.1730	0.9247	0.0139		0.1757	0.1757		0.1757	0.1757		2,774.0320	2,774.0320	0.0532	0.0509	2,790.5167
City Park	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
Elementary School	2943.75	0.0318	0.2886	0.2424	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.3241	346.3241	6.6400e-003	6.3500e-003	348.3821
Office Park	54264.8	0.5852	5.3201	4.4689	0.0319		0.4043	0.4043		0.4043	0.4043		6,384.0903	6,384.0903	0.1224	0.1170	6,422.0277
Single Family Housing	69161.5	0.7459	6.3737	2.7122	0.0407		0.5153	0.5153		0.5153	0.5153		8,136.6480	8,136.6480	0.1560	0.1492	8,185.0000
Total		1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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					
Apartments High Rise	21.0511	0.2270	1.9400	0.8255	0.0124		0.1569	0.1569		0.1569	0.1569		2,476.5975	2,476.5975	0.0475	0.0454	2,491.3147
Apartments Low Rise	12.9018	0.1391	1.1890	0.5060	7.5900e-003		0.0961	0.0961		0.0961	0.0961		1,517.8641	1,517.8641	0.0291	0.0278	1,526.8840
Apartments Mid Rise	23.5793	0.2543	2.1730	0.9247	0.0139		0.1757	0.1757		0.1757	0.1757		2,774.0320	2,774.0320	0.0532	0.0509	2,790.5167
City Park	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
Elementary School	2.94375	0.0318	0.2886	0.2424	1.7300e-003		0.0219	0.0219		0.0219	0.0219		346.3241	346.3241	6.6400e-003	6.3500e-003	348.3821
Office Park	54.2648	0.5852	5.3201	4.4689	0.0319		0.4043	0.4043		0.4043	0.4043		6,384.0903	6,384.0903	0.1224	0.1170	6,422.0277
Single Family Housing	69.1615	0.7459	6.3737	2.7122	0.0407		0.5153	0.5153		0.5153	0.5153		8,136.6480	8,136.6480	0.1560	0.1492	8,185.0000
Total		1.9833	17.2844	9.6797	0.1082		1.3703	1.3703		1.3703	1.3703		21,635.5559	21,635.5559	0.4147	0.3967	21,764.1252

6.0 Area Detail

6.1 Mitigation Measures Area

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287
Unmitigated	140.3028	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

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	17.2619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	115.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8837	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653		475.9833	475.9833	0.4538		487.3287
Total	140.3029	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

UWSP - Phase 1 Construction_Mitigated - Sacramento Metropolitan AQMD Air District, 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	17.2619					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	115.1572					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.8837	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653		475.9833	475.9833	0.4538		487.3287
Total	140.3029	3.0368	263.1431	0.0140		1.4653	1.4653		1.4653	1.4653	0.0000	475.9833	475.9833	0.4538	0.0000	487.3287

7.0 Water Detail**7.1 Mitigation Measures Water**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Sacramento Metropolitan AQMD Air District, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.01	0.67	0.00	0.00	0.77	0.78	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.20	0.31	-0.03	0.00	0.72	0.71	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.74	0.79	-0.13	0.00	0.90	0.89	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.67	0.86	-0.17	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.81	0.93	-0.14	0.00	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Final	2	2	No Change	0.00
Cranes	Diesel	Tier 4 Final	2	2	No Change	0.00
Excavators	Diesel	Tier 4 Final	12	12	No Change	0.00
Forklifts	Diesel	Tier 4 Final	6	6	No Change	0.00
Generator Sets	Diesel	Tier 4 Final	2	2	No Change	0.00
Graders	Diesel	Tier 4 Final	2	2	No Change	0.00
Pavers	Diesel	Tier 4 Final	4	4	No Change	0.00
Paving Equipment	Diesel	Tier 4 Final	4	4	No Change	0.00
Rollers	Diesel	Tier 4 Final	4	4	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Final	8	8	No Change	0.00
Scrapers	Diesel	Tier 4 Final	29	29	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	21	21	No Change	0.00
Welders	Diesel	Tier 4 Final	2	2	No Change	0.00

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	2.83170E-001	1.89690E+000	3.03784E+000	4.99000E-003	8.38900E-002	8.38900E-002	0.00000E+000	4.28947E+002	4.28947E+002	2.29500E-002	0.00000E+000	4.29520E+002
Cranes	4.57720E-001	4.44193E+000	2.51305E+000	8.65000E-003	1.87020E-001	1.72340E-001	0.00000E+000	7.57920E+002	7.57920E+002	2.23310E-001	0.00000E+000	7.63503E+002
Excavators	6.69800E-002	5.41180E-001	1.17361E+000	1.86000E-003	2.65400E-002	2.44200E-002	0.00000E+000	1.63344E+002	1.63344E+002	5.28300E-002	0.00000E+000	1.64665E+002
Forklifts	4.43890E-001	4.03032E+000	5.74310E+000	7.86000E-003	2.10050E-001	1.93470E-001	0.00000E+000	6.88569E+002	6.88569E+002	2.03430E-001	0.00000E+000	6.93655E+002
Generator Sets	4.41800E-001	3.97518E+000	6.14556E+000	1.10500E-002	1.55580E-001	1.55580E-001	0.00000E+000	9.49549E+002	9.49549E+002	3.48500E-002	0.00000E+000	9.50420E+002
Graders	2.30100E-002	2.79180E-001	1.01560E-001	4.00000E-004	9.05000E-003	8.32000E-003	0.00000E+000	3.48824E+001	3.48824E+001	1.12800E-002	0.00000E+000	3.51645E+001
Pavers	2.25700E-002	2.18040E-001	3.46530E-001	5.60000E-004	1.02200E-002	9.41000E-003	0.00000E+000	4.95532E+001	4.95532E+001	1.60300E-002	0.00000E+000	4.99538E+001
Paving Equipment	2.01500E-002	1.86370E-001	3.07540E-001	4.90000E-004	9.03000E-003	8.31000E-003	0.00000E+000	4.29425E+001	4.29425E+001	1.38900E-002	0.00000E+000	4.32897E+001
Rollers	1.80000E-002	1.88410E-001	2.22150E-001	3.10000E-004	1.01900E-002	9.37000E-003	0.00000E+000	2.76646E+001	2.76646E+001	8.95000E-003	0.00000E+000	2.78883E+001
Rubber Tired Dozers	1.64320E-001	1.71052E+000	7.45520E-001	2.05000E-003	7.70200E-002	7.08600E-002	0.00000E+000	1.80058E+002	1.80058E+002	5.82300E-002	0.00000E+000	1.81514E+002
Scrapers	6.84490E-001	7.20656E+000	5.33920E+000	1.32100E-002	2.82570E-001	2.59960E-001	0.00000E+000	1.16030E+003	1.16030E+003	3.75260E-001	0.00000E+000	1.16968E+003
Tractors/Loaders/Backhoes	6.72550E-001	6.52895E+000	1.08839E+001	1.54100E-002	2.66670E-001	2.45900E-001	0.00000E+000	1.35089E+003	1.35089E+003	4.02700E-001	0.00000E+000	1.36096E+003
Welders	3.65060E-001	2.24281E+000	2.77048E+000	4.29000E-003	6.67600E-002	6.67600E-002	0.00000E+000	3.16211E+002	3.16211E+002	2.97000E-002	0.00000E+000	3.16953E+002

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	4.99200E-002	2.16320E-001	3.07845E+000	4.99000E-003	6.66000E-003	6.66000E-003	0.00000E+000	4.28946E+002	4.28946E+002	2.29500E-002	0.00000E+000	4.29520E+002
Cranes	1.04210E-001	4.51570E-001	3.82097E+000	8.65000E-003	1.38900E-002	1.38900E-002	0.00000E+000	7.57919E+002	7.57919E+002	2.23310E-001	0.00000E+000	7.63502E+002
Excavators	2.28700E-002	9.91200E-002	1.41049E+000	1.86000E-003	3.05000E-003	3.05000E-003	0.00000E+000	1.63344E+002	1.63344E+002	5.28300E-002	0.00000E+000	1.64665E+002
Forklifts	9.49300E-002	4.11380E-001	5.85431E+000	7.86000E-003	1.26600E-002	1.26600E-002	0.00000E+000	6.88568E+002	6.88568E+002	2.03430E-001	0.00000E+000	6.93654E+002
Generator Sets	1.10510E-001	4.78870E-001	6.81468E+000	1.10500E-002	1.47300E-002	1.47300E-002	0.00000E+000	9.49547E+002	9.49547E+002	3.48500E-002	0.00000E+000	9.50419E+002
Graders	4.87000E-003	2.10900E-002	1.78490E-001	4.00000E-004	6.50000E-004	6.50000E-004	0.00000E+000	3.48824E+001	3.48824E+001	1.12800E-002	0.00000E+000	3.51644E+001
Pavers	6.93000E-003	3.00400E-002	4.27560E-001	5.60000E-004	9.20000E-004	9.20000E-004	0.00000E+000	4.95531E+001	4.95531E+001	1.60300E-002	0.00000E+000	4.99538E+001
Paving Equipment	6.03000E-003	2.61500E-002	3.72120E-001	4.90000E-004	8.00000E-004	8.00000E-004	0.00000E+000	4.29424E+001	4.29424E+001	1.38900E-002	0.00000E+000	4.32896E+001
Rollers	3.86000E-003	1.67300E-002	2.38060E-001	3.10000E-004	5.10000E-004	5.10000E-004	0.00000E+000	2.76646E+001	2.76646E+001	8.95000E-003	0.00000E+000	2.78883E+001
Rubber Tired Dozers	2.50900E-002	1.08730E-001	9.20060E-001	2.05000E-003	3.35000E-003	3.35000E-003	0.00000E+000	1.80058E+002	1.80058E+002	5.82300E-002	0.00000E+000	1.81514E+002
Scrapers	1.62180E-001	7.02790E-001	5.94666E+000	1.32100E-002	2.16200E-002	2.16200E-002	0.00000E+000	1.16030E+003	1.16030E+003	3.75260E-001	0.00000E+000	1.16968E+003
Tractors/Loaders/Balckhoes	1.84580E-001	7.99850E-001	1.13824E+001	1.54100E-002	2.46100E-002	2.46100E-002	0.00000E+000	1.35089E+003	1.35089E+003	4.02700E-001	0.00000E+000	1.36096E+003
Welders	7.36000E-002	1.68669E+000	2.51471E+000	4.29000E-003	4.91000E-003	4.91000E-003	0.00000E+000	3.16210E+002	3.16210E+002	2.97000E-002	0.00000E+000	3.16953E+002

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	8.23710E-001	8.85961E-001	-1.33681E-002	0.00000E+000	9.20610E-001	9.20610E-001	0.00000E+000	1.18896E-006	1.18896E-006	0.00000E+000	0.00000E+000	1.18737E-006
Cranes	7.72328E-001	8.98339E-001	-5.20451E-001	0.00000E+000	9.25730E-001	9.19404E-001	0.00000E+000	1.18746E-006	1.18746E-006	0.00000E+000	0.00000E+000	1.19188E-006
Excavators	6.58555E-001	8.16845E-001	-2.01839E-001	0.00000E+000	8.85079E-001	8.75102E-001	0.00000E+000	1.16319E-006	1.16319E-006	0.00000E+000	0.00000E+000	1.15386E-006
Forklifts	7.86141E-001	8.97929E-001	-1.93641E-002	0.00000E+000	9.39729E-001	9.34563E-001	0.00000E+000	1.19088E-006	1.19088E-006	0.00000E+000	0.00000E+000	1.19656E-006
Generator Sets	7.49864E-001	8.79535E-001	-1.08879E-001	0.00000E+000	9.05322E-001	9.05322E-001	0.00000E+000	1.19004E-006	1.19004E-006	0.00000E+000	0.00000E+000	1.18895E-006
Graders	7.88353E-001	9.24457E-001	-7.57483E-001	0.00000E+000	9.28177E-001	9.21875E-001	0.00000E+000	1.14671E-006	1.14671E-006	0.00000E+000	0.00000E+000	1.13751E-006
Pavers	6.92955E-001	8.62227E-001	-2.33833E-001	0.00000E+000	9.09980E-001	9.02232E-001	0.00000E+000	1.21082E-006	1.21082E-006	0.00000E+000	0.00000E+000	1.20111E-006
Paving Equipment	7.00744E-001	8.59688E-001	-2.09989E-001	0.00000E+000	9.11406E-001	9.03730E-001	0.00000E+000	1.16435E-006	1.16435E-006	0.00000E+000	0.00000E+000	1.15501E-006
Rollers	7.85556E-001	9.11204E-001	-7.16183E-002	0.00000E+000	9.49951E-001	9.45571E-001	0.00000E+000	1.08442E-006	1.08442E-006	0.00000E+000	0.00000E+000	1.43429E-006
Rubber Tired Dozers	8.47310E-001	9.36435E-001	-2.34118E-001	0.00000E+000	9.56505E-001	9.52724E-001	0.00000E+000	1.16629E-006	1.16629E-006	0.00000E+000	0.00000E+000	1.15694E-006
Scrapers	7.63064E-001	9.02479E-001	-1.13774E-001	0.00000E+000	9.23488E-001	9.16833E-001	0.00000E+000	1.18935E-006	1.18935E-006	0.00000E+000	0.00000E+000	1.18836E-006
Tractors/Loaders/Balckhoes	7.25552E-001	8.77492E-001	-4.58082E-002	0.00000E+000	9.07714E-001	8.99919E-001	0.00000E+000	1.18440E-006	1.18440E-006	0.00000E+000	0.00000E+000	1.19033E-006
Welders	7.98389E-001	2.47957E-001	9.23197E-002	0.00000E+000	9.26453E-001	9.26453E-001	0.00000E+000	1.20173E-006	1.20173E-006	0.00000E+000	0.00000E+000	1.19892E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Water Exposed Area	PM10 Reduction	0.00	PM2.5 Reduction	0.00	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	3.66	0.97	3.66	0.97	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	22.21	6.00	22.21	6.00	0.00	0.00
Grading	Fugitive Dust	0.58	0.22	0.58	0.22	0.00	0.00
Grading	Roads	0.15	0.04	0.15	0.04	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Site Preparation	Fugitive Dust	1.13	0.60	1.13	0.60	0.00	0.00
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.00	0.00

Operational Percent Reduction Summary

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.81		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

UWSP - Phase 1 Construction_Mitigated**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

UWSP - Phase 1 Construction_Mitigated

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Construction of Non-Phase I
Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	321.00	1000sqft	7.37	321,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	2,150.00	Student	5.80	252,757.62	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	2,855.00	Dwelling Unit	75.13	2,855,000.00	7623
Single Family Housing	3,300.00	Dwelling Unit	1,071.43	5,940,000.00	8811
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

(lb/MWahr)

(lb/MWahr)

(lb/MWahr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - Land uses adjusted to remove Phase I.

Construction Phase - Construction phasing adjusted to reflect 20-year buildout.

Off-road Equipment - Fleet mix adjusted based on size/timing of project.

Off-road Equipment - Fleet mix adjusted based on size/timing of project.

Off-road Equipment - Fleet mix adjusted based on size/timing of grading phase.

Off-road Equipment -

Grading -

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	11,000.00	3,369.00
tblConstructionPhase	NumDays	155,000.00	3,369.00
tblConstructionPhase	NumDays	15,500.00	120.00
tblConstructionPhase	NumDays	11,000.00	120.00
tblConstructionPhase	NumDays	6,000.00	120.00
tblGrading	AcresOfGrading	3,660.00	360.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0

2.0 Emissions Summary

2.1 Overall Construction**Unmitigated Construction**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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
Year	tons/yr										MT/yr					
2030	0.1348	0.7458	0.9035	2.5900e-003	1.0873	0.0238	1.1111	0.5534	0.0238	0.5773	0.0000	222.9830	222.9830	0.0109	1.1000e-004	223.2883
2031	1.6836	7.0522	9.1427	0.0344	0.9875	0.2582	1.2457	0.3489	0.2581	0.6070	0.0000	3,452.1035	3,452.1035	0.1361	0.0165	3,460.4070
2032	6.9707	9.0744	16.8260	0.0665	5.9067	0.0920	5.9987	1.5909	0.0894	1.6803	0.0000	6,429.9060	6,429.9060	0.1473	0.4182	6,558.2140
2033	6.8774	8.9248	16.4307	0.0651	5.8647	0.0899	5.9547	1.5796	0.0874	1.6670	0.0000	6,311.9945	6,311.9945	0.1419	0.4093	6,437.5069
2034	6.8217	8.8495	16.1866	0.0643	5.8647	0.0886	5.9533	1.5796	0.0862	1.6657	0.0000	6,248.5213	6,248.5213	0.1379	0.4041	6,372.3971
2035	6.7695	8.5913	16.0284	0.0638	5.8872	0.0700	5.9572	1.5856	0.0676	1.6532	0.0000	6,217.0666	6,217.0666	0.1328	0.4012	6,339.9417
2036	6.7955	8.6242	16.0898	0.0641	5.9098	0.0702	5.9800	1.5917	0.0679	1.6595	0.0000	6,240.8867	6,240.8867	0.1333	0.4027	6,364.2327
2037	6.7695	8.5913	16.0284	0.0638	5.8872	0.0700	5.9572	1.5856	0.0676	1.6532	0.0000	6,217.0666	6,217.0666	0.1328	0.4012	6,339.9417
2038	6.7695	8.5913	16.0284	0.0638	5.8872	0.0700	5.9572	1.5856	0.0676	1.6532	0.0000	6,217.0666	6,217.0666	0.1328	0.4012	6,339.9417
2039	6.7436	8.5584	15.9670	0.0636	5.8647	0.0697	5.9344	1.5795	0.0673	1.6469	0.0000	6,193.2464	6,193.2464	0.1323	0.3997	6,315.6507
2040	6.5663	8.2921	15.3306	0.0614	5.8871	0.0613	5.9484	1.5856	0.0592	1.6447	0.0000	6,025.4964	6,025.4964	0.1199	0.3848	6,143.1655
2041	6.5663	8.2921	15.3306	0.0614	5.8871	0.0613	5.9484	1.5856	0.0592	1.6447	0.0000	6,025.4964	6,025.4964	0.1199	0.3848	6,143.1655
2042	6.5663	8.2921	15.3306	0.0614	5.8871	0.0613	5.9484	1.5856	0.0592	1.6447	0.0000	6,025.4964	6,025.4964	0.1199	0.3848	6,143.1655
2043	6.5663	8.2921	15.3306	0.0614	5.8871	0.0613	5.9484	1.5856	0.0592	1.6447	0.0000	6,025.4964	6,025.4964	0.1199	0.3848	6,143.1655
2044	5.9660	7.2549	13.4738	0.0539	5.1780	0.0537	5.2317	1.3945	0.0518	1.4463	0.0000	5,288.6202	5,288.6202	0.1051	0.3366	5,391.5638
Maximum	6.9707	9.0744	16.8260	0.0665	5.9098	0.2582	5.9987	1.5917	0.2581	1.6803	0.0000	6,429.9060	6,429.9060	0.1473	0.4182	6,558.2140

2.1 Overall Construction**Mitigated Construction**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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
Year	tons/yr										MT/yr					
2030	0.1348	0.7458	0.9035	2.5900e-003	1.0873	0.0238	1.1111	0.5534	0.0238	0.5773	0.0000	222.9828	222.9828	0.0109	1.1000e-004	223.2881
2031	1.6836	7.0522	9.1427	0.0344	0.9875	0.2582	1.2457	0.3489	0.2581	0.6070	0.0000	3,452.0996	3,452.0996	0.1361	0.0165	3,460.4031
2032	6.9707	9.0744	16.8260	0.0665	5.9067	0.0920	5.9987	1.5909	0.0894	1.6803	0.0000	6,429.9051	6,429.9051	0.1473	0.4182	6,558.2131
2033	6.8774	8.9248	16.4307	0.0651	5.8647	0.0899	5.9547	1.5796	0.0874	1.6670	0.0000	6,311.9936	6,311.9936	0.1419	0.4093	6,437.5060
2034	6.8217	8.8495	16.1866	0.0643	5.8647	0.0886	5.9533	1.5796	0.0862	1.6657	0.0000	6,248.5204	6,248.5204	0.1379	0.4041	6,372.3962
2035	6.7695	8.5913	16.0284	0.0638	5.8872	0.0700	5.9572	1.5856	0.0676	1.6532	0.0000	6,217.0657	6,217.0657	0.1328	0.4012	6,339.9408
2036	6.7955	8.6242	16.0898	0.0641	5.9098	0.0702	5.9800	1.5917	0.0679	1.6595	0.0000	6,240.8858	6,240.8858	0.1333	0.4027	6,364.2318
2037	6.7695	8.5913	16.0284	0.0638	5.8872	0.0700	5.9572	1.5856	0.0676	1.6532	0.0000	6,217.0657	6,217.0657	0.1328	0.4012	6,339.9408
2038	6.7695	8.5913	16.0284	0.0638	5.8872	0.0700	5.9572	1.5856	0.0676	1.6532	0.0000	6,217.0657	6,217.0657	0.1328	0.4012	6,339.9408
2039	6.7436	8.5584	15.9669	0.0636	5.8647	0.0697	5.9344	1.5795	0.0673	1.6469	0.0000	6,193.2455	6,193.2455	0.1323	0.3997	6,315.6498
2040	6.5663	8.2921	15.3306	0.0614	5.8871	0.0613	5.9484	1.5856	0.0592	1.6447	0.0000	6,025.4955	6,025.4955	0.1199	0.3848	6,143.1646
2041	6.5663	8.2921	15.3306	0.0614	5.8871	0.0613	5.9484	1.5856	0.0592	1.6447	0.0000	6,025.4955	6,025.4955	0.1199	0.3848	6,143.1646
2042	6.5663	8.2921	15.3306	0.0614	5.8871	0.0613	5.9484	1.5856	0.0592	1.6447	0.0000	6,025.4955	6,025.4955	0.1199	0.3848	6,143.1646
2043	6.5663	8.2921	15.3306	0.0614	5.8871	0.0613	5.9484	1.5856	0.0592	1.6447	0.0000	6,025.4955	6,025.4955	0.1199	0.3848	6,143.1646
2044	5.9660	7.2549	13.4738	0.0539	5.1780	0.0537	5.2317	1.3945	0.0518	1.4463	0.0000	5,288.6194	5,288.6194	0.1051	0.3366	5,391.5631
Maximum	6.9707	9.0744	16.8260	0.0665	5.9098	0.2582	5.9987	1.5917	0.2581	1.6803	0.0000	6,429.9051	6,429.9051	0.1473	0.4182	6,558.2131

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2030	10-31-2030	0.5311	0.5311
2	11-1-2030	1-31-2031	1.1758	1.1758
3	2-1-2031	4-30-2031	4.1003	4.1003
4	5-1-2031	7-31-2031	2.9910	2.9910
5	8-1-2031	10-31-2031	0.2809	0.2809
6	11-1-2031	1-31-2032	1.9129	1.9129
7	2-1-2032	4-30-2032	3.9727	3.9727
8	5-1-2032	7-31-2032	3.9896	3.9896
9	8-1-2032	10-31-2032	4.0257	4.0257
10	11-1-2032	1-31-2033	4.0841	4.0841
11	2-1-2033	4-30-2033	3.8920	3.8920
12	5-1-2033	7-31-2033	3.9519	3.9519
13	8-1-2033	10-31-2033	3.9881	3.9881
14	11-1-2033	1-31-2034	4.0479	4.0479
15	2-1-2034	4-30-2034	3.8587	3.8587
16	5-1-2034	7-31-2034	3.9170	3.9170
17	8-1-2034	10-31-2034	3.9535	3.9535
18	11-1-2034	1-31-2035	3.9936	3.9936
19	2-1-2035	4-30-2035	3.7674	3.7674
20	5-1-2035	7-31-2035	3.8218	3.8218
21	8-1-2035	10-31-2035	3.8587	3.8587
22	11-1-2035	1-31-2036	3.9312	3.9312
23	2-1-2036	4-30-2036	3.8101	3.8101
24	5-1-2036	7-31-2036	3.8218	3.8218
25	8-1-2036	10-31-2036	3.8587	3.8587

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

26	11-1-2036	1-31-2037	3.9312	3.9312
27	2-1-2037	4-30-2037	3.7674	3.7674
28	5-1-2037	7-31-2037	3.8218	3.8218
29	8-1-2037	10-31-2037	3.8587	3.8587
30	11-1-2037	1-31-2038	3.9312	3.9312
31	2-1-2038	4-30-2038	3.7674	3.7674
32	5-1-2038	7-31-2038	3.8218	3.8218
33	8-1-2038	10-31-2038	3.8587	3.8587
34	11-1-2038	1-31-2039	3.9312	3.9312
35	2-1-2039	4-30-2039	3.7674	3.7674
36	5-1-2039	7-31-2039	3.8218	3.8218
37	8-1-2039	10-31-2039	3.8587	3.8587
38	11-1-2039	1-31-2040	3.8879	3.8879
39	2-1-2040	4-30-2040	3.6820	3.6820
40	5-1-2040	7-31-2040	3.6862	3.6862
41	8-1-2040	10-31-2040	3.7255	3.7255
42	11-1-2040	1-31-2041	3.8027	3.8027
43	2-1-2041	4-30-2041	3.6407	3.6407
44	5-1-2041	7-31-2041	3.6862	3.6862
45	8-1-2041	10-31-2041	3.7255	3.7255
46	11-1-2041	1-31-2042	3.8027	3.8027
47	2-1-2042	4-30-2042	3.6407	3.6407
48	5-1-2042	7-31-2042	3.6862	3.6862
49	8-1-2042	10-31-2042	3.7255	3.7255
50	11-1-2042	1-31-2043	3.8027	3.8027
51	2-1-2043	4-30-2043	3.6407	3.6407
52	5-1-2043	7-31-2043	3.6862	3.6862
53	8-1-2043	10-31-2043	3.7255	3.7255
54	11-1-2043	1-31-2044	3.8027	3.8027

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

55	2-1-2044	4-30-2044	3.6820	3.6820
56	5-1-2044	7-31-2044	3.6862	3.6862
57	8-1-2044	9-30-2044	2.4441	2.4441
		Highest	4.1003	4.1003

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	54.2555	0.7304	63.2968	3.3600e-003		0.3524	0.3524		0.3524	0.3524	0.0000	103.8824	103.8824	0.0992	0.0000	106.3625
Energy	1.0724	9.4407	5.9257	0.0585		0.7410	0.7410		0.7410	0.7410	0.0000	10,613.4348	10,613.4348	1.2808	0.3252	10,742.3577
Mobile	25.7928	29.2084	255.1674	0.5021	72.1700	0.2478	72.4178	19.2673	0.2317	19.4990	0.0000	51,181.4254	51,181.4254	3.4580	2.5285	52,021.3662
Waste						0.0000	0.0000		0.0000	0.0000	1,904.7860	0.0000	1,904.7860	112.5696	0.0000	4,719.0267
Water						0.0000	0.0000		0.0000	0.0000	217.8858	0.0000	217.8858	0.8146	0.4817	381.7864
Total	81.1208	39.3795	324.3899	0.5640	72.1700	1.3411	73.5111	19.2673	1.3250	20.5923	2,122.6718	61,898.7426	64,021.4144	118.2222	3.3353	67,970.8994

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	54.2555	0.7304	63.2968	3.3600e-003		0.3524	0.3524		0.3524	0.3524	0.0000	103.8824	103.8824	0.0992	0.0000	106.3625
Energy	1.0724	9.4407	5.9257	0.0585		0.7410	0.7410		0.7410	0.7410	0.0000	10,613.4348	10,613.4348	1.2808	0.3252	10,742.3577
Mobile	25.7928	29.2084	255.1674	0.5021	72.1700	0.2478	72.4178	19.2673	0.2317	19.4990	0.0000	51,181.4254	51,181.4254	3.4580	2.5285	52,021.3662
Waste						0.0000	0.0000		0.0000	0.0000	1,904.7860	0.0000	1,904.7860	112.5696	0.0000	4,719.0267
Water						0.0000	0.0000		0.0000	0.0000	217.8858	0.0000	217.8858	0.8108	0.4812	381.5577
Total	81.1208	39.3795	324.3899	0.5640	72.1700	1.3411	73.5111	19.2673	1.3250	20.5923	2,122.6718	61,898.7426	64,021.4144	118.2185	3.3349	67,970.6707

	ROG	NOx	CO	SO2	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	0.01	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	8/1/2030	1/15/2031	5	120	
2	Grading	Grading	1/16/2031	7/2/2031	5	120	
3	Paving	Paving	7/3/2031	12/17/2031	5	120	

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

4	Building Construction	Building Construction	12/18/2031	11/15/2044	5	3369
5	Arch Coating	Architectural Coating	1/2/2032	11/30/2044	5	3369

Acres of Grading (Site Preparation Phase): 180**Acres of Grading (Grading Phase): 360****Acres of Paving: 0**

Residential Indoor: 17,809,875; Residential Outdoor: 5,936,625; Non-Residential Indoor: 4,292,984; Non-Residential Outdoor: 1,430,995;
Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Arch Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	36	90.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	4,371.00	1,127.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating	2	874.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Site Preparation - 2030****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					1.0801	0.0000	1.0801	0.5515	0.0000	0.5515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1330	0.7449	0.8879	2.5400e-003		0.0238	0.0238		0.0238	0.0238	0.0000	218.0251	218.0251	0.0108	0.0000	218.2941
Total	0.1330	0.7449	0.8879	2.5400e-003	1.0801	0.0238	1.1039	0.5515	0.0238	0.5753	0.0000	218.0251	218.0251	0.0108	0.0000	218.2941

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	9.2000e-004	0.0156	5.0000e-005	7.2000e-003	3.0000e-005	7.2300e-003	1.9200e-003	2.0000e-005	1.9400e-003	0.0000	4.9579	4.9579	1.0000e-004	1.1000e-004	4.9943
Total	1.8600e-003	9.2000e-004	0.0156	5.0000e-005	7.2000e-003	3.0000e-005	7.2300e-003	1.9200e-003	2.0000e-005	1.9400e-003	0.0000	4.9579	4.9579	1.0000e-004	1.1000e-004	4.9943

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					1.0801	0.0000	1.0801	0.5515	0.0000	0.5515	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1330	0.7449	0.8879	2.5400e-003		0.0238	0.0238		0.0238	0.0238	0.0000	218.0249	218.0249	0.0108	0.0000	218.2938
Total	0.1330	0.7449	0.8879	2.5400e-003	1.0801	0.0238	1.1039	0.5515	0.0238	0.5753	0.0000	218.0249	218.0249	0.0108	0.0000	218.2938

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	9.2000e-004	0.0156	5.0000e-005	7.2000e-003	3.0000e-005	7.2300e-003	1.9200e-003	2.0000e-005	1.9400e-003	0.0000	4.9579	4.9579	1.0000e-004	1.1000e-004	4.9943
Total	1.8600e-003	9.2000e-004	0.0156	5.0000e-005	7.2000e-003	3.0000e-005	7.2300e-003	1.9200e-003	2.0000e-005	1.9400e-003	0.0000	4.9579	4.9579	1.0000e-004	1.1000e-004	4.9943

3.2 Site Preparation - 2031

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					0.1948	0.0000	0.1948	0.0649	0.0000	0.0649	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.0752	0.0896	2.6000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	22.0025	22.0025	1.0900e-003	0.0000	22.0297
Total	0.0134	0.0752	0.0896	2.6000e-004	0.1948	2.4000e-003	0.1972	0.0649	2.4000e-003	0.0673	0.0000	22.0025	22.0025	1.0900e-003	0.0000	22.0297

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	9.0000e-005	1.5200e-003	0.0000	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.4927	0.4927	1.0000e-005	1.0000e-005	0.4962
Total	1.8000e-004	9.0000e-005	1.5200e-003	0.0000	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.4927	0.4927	1.0000e-005	1.0000e-005	0.4962

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					0.1948	0.0000	0.1948	0.0649	0.0000	0.0649	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.0752	0.0896	2.6000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003	0.0000	22.0025	22.0025	1.0900e-003	0.0000	22.0297
Total	0.0134	0.0752	0.0896	2.6000e-004	0.1948	2.4000e-003	0.1972	0.0649	2.4000e-003	0.0673	0.0000	22.0025	22.0025	1.0900e-003	0.0000	22.0297

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	9.0000e-005	1.5200e-003	0.0000	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.4927	0.4927	1.0000e-005	1.0000e-005	0.4962
Total	1.8000e-004	9.0000e-005	1.5200e-003	0.0000	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.4927	0.4927	1.0000e-005	1.0000e-005	0.4962

3.3 Grading - 2031

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					0.5522	0.0000	0.5522	0.2192	0.0000	0.2192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5180	6.2064	7.4339	0.0299		0.2326	0.2326		0.2326	0.2326	0.0000	3,029.3374	3,029.3374	0.1223	0.0000	3,032.3945
Total	1.5180	6.2064	7.4339	0.0299	0.5522	0.2326	0.7848	0.2192	0.2326	0.4518	0.0000	3,029.3374	3,029.3374	0.1223	0.0000	3,032.3945

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.3 Grading - 2031

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	9.6400e-003	4.7700e-003	0.0830	2.7000e-004	0.0397	1.3000e-004	0.0398	0.0106	1.2000e-004	0.0107	0.0000	26.8734	26.8734	5.1000e-004	6.1000e-004	27.0670
Total	9.6400e-003	4.7700e-003	0.0830	2.7000e-004	0.0397	1.3000e-004	0.0398	0.0106	1.2000e-004	0.0107	0.0000	26.8734	26.8734	5.1000e-004	6.1000e-004	27.0670

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					0.5522	0.0000	0.5522	0.2192	0.0000	0.2192	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5180	6.2064	7.4339	0.0299		0.2326	0.2326		0.2326	0.2326	0.0000	3,029.3338	3,029.3338	0.1223	0.0000	3,032.3909
Total	1.5180	6.2064	7.4339	0.0299	0.5522	0.2326	0.7848	0.2192	0.2326	0.4518	0.0000	3,029.3338	3,029.3338	0.1223	0.0000	3,032.3909

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.3 Grading - 2031

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	9.6400e-003	4.7700e-003	0.0830	2.7000e-004	0.0397	1.3000e-004	0.0398	0.0106	1.2000e-004	0.0107	0.0000	26.8734	26.8734	5.1000e-004	6.1000e-004	27.0670
Total	9.6400e-003	4.7700e-003	0.0830	2.7000e-004	0.0397	1.3000e-004	0.0398	0.0106	1.2000e-004	0.0107	0.0000	26.8734	26.8734	5.1000e-004	6.1000e-004	27.0670

3.4 Paving - 2031

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	0.0831	0.4272	0.9510	1.6800e-003		0.0198	0.0198		0.0198	0.0198	0.0000	144.5971	144.5971	6.7800e-003	0.0000	144.7666
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0831	0.4272	0.9510	1.6800e-003		0.0198	0.0198		0.0198	0.0198	0.0000	144.5971	144.5971	6.7800e-003	0.0000	144.7666

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.4 Paving - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6100e-003	7.9000e-004	0.0138	5.0000e-005	6.6100e-003	2.0000e-005	6.6300e-003	1.7600e-003	2.0000e-005	1.7800e-003	0.0000	4.4789	4.4789	9.0000e-005	1.0000e-004	4.5112
Total	1.6100e-003	7.9000e-004	0.0138	5.0000e-005	6.6100e-003	2.0000e-005	6.6300e-003	1.7600e-003	2.0000e-005	1.7800e-003	0.0000	4.4789	4.4789	9.0000e-005	1.0000e-004	4.5112

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	0.0831	0.4272	0.9510	1.6800e-003		0.0198	0.0198		0.0198	0.0198	0.0000	144.5969	144.5969	6.7800e-003	0.0000	144.7664
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0831	0.4272	0.9510	1.6800e-003		0.0198	0.0198		0.0198	0.0198	0.0000	144.5969	144.5969	6.7800e-003	0.0000	144.7664

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.4 Paving - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6100e-003	7.9000e-004	0.0138	5.0000e-005	6.6100e-003	2.0000e-005	6.6300e-003	1.7600e-003	2.0000e-005	1.7800e-003	0.0000	4.4789	4.4789	9.0000e-005	1.0000e-004	4.5112
Total	1.6100e-003	7.9000e-004	0.0138	5.0000e-005	6.6100e-003	2.0000e-005	6.6300e-003	1.7600e-003	2.0000e-005	1.7800e-003	0.0000	4.4789	4.4789	9.0000e-005	1.0000e-004	4.5112

3.5 Building Construction - 2031

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	0.0131	0.0794	0.1616	3.1000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	26.2861	26.2861	1.0500e-003	0.0000	26.3125
Total	0.0131	0.0794	0.1616	3.1000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	26.2861	26.2861	1.0500e-003	0.0000	26.3125

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2031

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	5.6700e-003	0.2391	0.0722	9.2000e-004	0.0330	1.2400e-003	0.0342	9.5300e-003	1.1900e-003	0.0107	0.0000	89.2728	89.2728	2.1800e-003	0.0133	93.2834
Worker	0.0390	0.0193	0.3360	1.1000e-003	0.1605	5.4000e-004	0.1611	0.0427	5.0000e-004	0.0432	0.0000	108.7626	108.7626	2.0700e-003	2.4600e-003	109.5460
Total	0.0447	0.2584	0.4083	2.0200e-003	0.1935	1.7800e-003	0.1953	0.0522	1.6900e-003	0.0539	0.0000	198.0354	198.0354	4.2500e-003	0.0157	202.8294

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	0.0131	0.0794	0.1616	3.1000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	26.2861	26.2861	1.0500e-003	0.0000	26.3124
Total	0.0131	0.0794	0.1616	3.1000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	26.2861	26.2861	1.0500e-003	0.0000	26.3124

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2031****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	5.6700e-003	0.2391	0.0722	9.2000e-004	0.0330	1.2400e-003	0.0342	9.5300e-003	1.1900e-003	0.0107	0.0000	89.2728	89.2728	2.1800e-003	0.0133	93.2834
Worker	0.0390	0.0193	0.3360	1.1000e-003	0.1605	5.4000e-004	0.1611	0.0427	5.0000e-004	0.0432	0.0000	108.7626	108.7626	2.0700e-003	2.4600e-003	109.5460
Total	0.0447	0.2584	0.4083	2.0200e-003	0.1935	1.7800e-003	0.1953	0.0522	1.6900e-003	0.0539	0.0000	198.0354	198.0354	4.2500e-003	0.0157	202.8294

3.5 Building Construction - 2032**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	0.3430	2.0789	4.2331	8.1100e-003		0.0388	0.0388		0.0388	0.0388	0.0000	688.6959	688.6959	0.0276	0.0000	689.3866
Total	0.3430	2.0789	4.2331	8.1100e-003		0.0388	0.0388		0.0388	0.0388	0.0000	688.6959	688.6959	0.0276	0.0000	689.3866

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2032****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	0.1456	6.1971	1.8833	0.0236	0.8636	0.0319	0.8955	0.2496	0.0306	0.2801	0.0000	2,303.948 0	2,303.948 0	0.0563	0.3430	2,407.574 4
Worker	0.9647	0.4794	8.5394	0.0283	4.2054	0.0133	4.2187	1.1185	0.0123	1.1308	0.0000	2,810.746 7	2,810.746 7	0.0507	0.0627	2,830.696 3
Total	1.1103	6.6765	10.4227	0.0519	5.0690	0.0453	5.1143	1.3681	0.0428	1.4109	0.0000	5,114.694 6	5,114.694 6	0.1069	0.4057	5,238.270 7

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	0.3430	2.0789	4.2331	8.1100e-003		0.0388	0.0388		0.0388	0.0388	0.0000	688.6951	688.6951	0.0276	0.0000	689.3858
Total	0.3430	2.0789	4.2331	8.1100e-003		0.0388	0.0388		0.0388	0.0388	0.0000	688.6951	688.6951	0.0276	0.0000	689.3858

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2032

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	0.1456	6.1971	1.8833	0.0236	0.8636	0.0319	0.8955	0.2496	0.0306	0.2801	0.0000	2,303.948 0	2,303.948 0	0.0563	0.3430	2,407.574 4
Worker	0.9647	0.4794	8.5394	0.0283	4.2054	0.0133	4.2187	1.1185	0.0123	1.1308	0.0000	2,810.746 7	2,810.746 7	0.0507	0.0627	2,830.696 3
Total	1.1103	6.6765	10.4227	0.0519	5.0690	0.0453	5.1143	1.3681	0.0428	1.4109	0.0000	5,114.694 6	5,114.694 6	0.1069	0.4057	5,238.270 7

3.5 Building Construction - 2033

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	0.3404	2.0630	4.2008	8.0500e-003		0.0385	0.0385		0.0385	0.0385	0.0000	683.4387	683.4387	0.0274	0.0000	684.1241
Total	0.3404	2.0630	4.2008	8.0500e-003		0.0385	0.0385		0.0385	0.0385	0.0000	683.4387	683.4387	0.0274	0.0000	684.1241

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2033****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	0.1421	6.0934	1.8631	0.0231	0.8570	0.0313	0.8882	0.2477	0.0299	0.2776	0.0000	2,255.641 8	2,255.641 8	0.0551	0.3362	2,357.204 1
Worker	0.9085	0.4548	8.2498	0.0276	4.1733	0.0124	4.1857	1.1100	0.0114	1.1214	0.0000	2,755.546 3	2,755.546 3	0.0472	0.0609	2,774.878 3
Total	1.0505	6.5482	10.1129	0.0507	5.0303	0.0437	5.0739	1.3576	0.0413	1.3990	0.0000	5,011.188 0	5,011.188 0	0.1023	0.3971	5,132.082 3

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	0.3404	2.0630	4.2008	8.0500e-003		0.0385	0.0385		0.0385	0.0385	0.0000	683.4378	683.4378	0.0274	0.0000	684.1233
Total	0.3404	2.0630	4.2008	8.0500e-003		0.0385	0.0385		0.0385	0.0385	0.0000	683.4378	683.4378	0.0274	0.0000	684.1233

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2033

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	0.1421	6.0934	1.8631	0.0231	0.8570	0.0313	0.8882	0.2477	0.0299	0.2776	0.0000	2,255.641 8	2,255.641 8	0.0551	0.3362	2,357.204 1
Worker	0.9085	0.4548	8.2498	0.0276	4.1733	0.0124	4.1857	1.1100	0.0114	1.1214	0.0000	2,755.546 3	2,755.546 3	0.0472	0.0609	2,774.878 3
Total	1.0505	6.5482	10.1129	0.0507	5.0303	0.0437	5.0739	1.3576	0.0413	1.3990	0.0000	5,011.188 0	5,011.188 0	0.1023	0.3971	5,132.082 3

3.5 Building Construction - 2034

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	0.3404	2.0630	4.2008	8.0500e-003		0.0385	0.0385		0.0385	0.0385	0.0000	683.4387	683.4387	0.0274	0.0000	684.1241
Total	0.3404	2.0630	4.2008	8.0500e-003		0.0385	0.0385		0.0385	0.0385	0.0000	683.4387	683.4387	0.0274	0.0000	684.1241

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2034

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	0.1398	6.0389	1.8585	0.0229	0.8569	0.0308	0.8877	0.2477	0.0295	0.2771	0.0000	2,227.534 7	2,227.534 7	0.0544	0.3323	2,327.927 2
Worker	0.8640	0.4375	8.0502	0.0272	4.1733	0.0117	4.1850	1.1100	0.0108	1.1207	0.0000	2,726.073 4	2,726.073 4	0.0445	0.0598	2,745.016 4
Total	1.0038	6.4764	9.9087	0.0500	5.0302	0.0425	5.0727	1.3576	0.0402	1.3978	0.0000	4,953.608 1	4,953.608 1	0.0989	0.3922	5,072.943 6

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	0.3404	2.0630	4.2008	8.0500e-003		0.0385	0.0385		0.0385	0.0385	0.0000	683.4378	683.4378	0.0274	0.0000	684.1233
Total	0.3404	2.0630	4.2008	8.0500e-003		0.0385	0.0385		0.0385	0.0385	0.0000	683.4378	683.4378	0.0274	0.0000	684.1233

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2034

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	0.1398	6.0389	1.8585	0.0229	0.8569	0.0308	0.8877	0.2477	0.0295	0.2771	0.0000	2,227.534 7	2,227.534 7	0.0544	0.3323	2,327.927 2
Worker	0.8640	0.4375	8.0502	0.0272	4.1733	0.0117	4.1850	1.1100	0.0108	1.1207	0.0000	2,726.073 4	2,726.073 4	0.0445	0.0598	2,745.016 4
Total	1.0038	6.4764	9.9087	0.0500	5.0302	0.0425	5.0727	1.3576	0.0402	1.3978	0.0000	4,953.608 1	4,953.608 1	0.0989	0.3922	5,072.943 6

3.5 Building Construction - 2035

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	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0673	686.0673	0.0256	0.0000	686.7061
Total	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0673	686.0673	0.0256	0.0000	686.7061

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2035****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	0.1383	6.0140	1.8618	0.0227	0.8602	0.0305	0.8907	0.2486	0.0292	0.2778	0.0000	2,211.008 4	2,211.008 4	0.0541	0.3301	2,310.742 8
Worker	0.8265	0.4254	7.9099	0.0269	4.1894	0.0111	4.2004	1.1142	0.0102	1.1244	0.0000	2,711.229 2	2,711.229 2	0.0422	0.0592	2,729.930 2
Total	0.9648	6.4394	9.7717	0.0496	5.0495	0.0416	5.0911	1.3628	0.0394	1.4022	0.0000	4,922.237 6	4,922.237 6	0.0963	0.3894	5,040.673 0

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	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0664	686.0664	0.0256	0.0000	686.7053
Total	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0664	686.0664	0.0256	0.0000	686.7053

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2035****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	0.1383	6.0140	1.8618	0.0227	0.8602	0.0305	0.8907	0.2486	0.0292	0.2778	0.0000	2,211.008 4	2,211.008 4	0.0541	0.3301	2,310.742 8
Worker	0.8265	0.4254	7.9099	0.0269	4.1894	0.0111	4.2004	1.1142	0.0102	1.1244	0.0000	2,711.229 2	2,711.229 2	0.0422	0.0592	2,729.930 2
Total	0.9648	6.4394	9.7717	0.0496	5.0495	0.0416	5.0911	1.3628	0.0394	1.4022	0.0000	4,922.237 6	4,922.237 6	0.0963	0.3894	5,040.673 0

3.5 Building Construction - 2036**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	0.3188	1.8763	4.2229	8.1100e-003		0.0237	0.0237		0.0237	0.0237	0.0000	688.6959	688.6959	0.0257	0.0000	689.3371
Total	0.3188	1.8763	4.2229	8.1100e-003		0.0237	0.0237		0.0237	0.0237	0.0000	688.6959	688.6959	0.0257	0.0000	689.3371

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2036****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	0.1388	6.0370	1.8690	0.0228	0.8635	0.0306	0.8941	0.2496	0.0293	0.2789	0.0000	2,219.479 7	2,219.479 7	0.0543	0.3314	2,319.596 3
Worker	0.8297	0.4270	7.9402	0.0270	4.2054	0.0111	4.2165	1.1185	0.0102	1.1287	0.0000	2,721.617 1	2,721.617 1	0.0424	0.0594	2,740.389 7
Total	0.9685	6.4641	9.8091	0.0498	5.0689	0.0417	5.1106	1.3681	0.0395	1.4076	0.0000	4,941.096 7	4,941.096 7	0.0967	0.3908	5,059.985 9

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	0.3188	1.8763	4.2229	8.1100e-003		0.0237	0.0237		0.0237	0.0237	0.0000	688.6951	688.6951	0.0257	0.0000	689.3363
Total	0.3188	1.8763	4.2229	8.1100e-003		0.0237	0.0237		0.0237	0.0237	0.0000	688.6951	688.6951	0.0257	0.0000	689.3363

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2036****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	0.1388	6.0370	1.8690	0.0228	0.8635	0.0306	0.8941	0.2496	0.0293	0.2789	0.0000	2,219.479 7	2,219.479 7	0.0543	0.3314	2,319.596 3
Worker	0.8297	0.4270	7.9402	0.0270	4.2054	0.0111	4.2165	1.1185	0.0102	1.1287	0.0000	2,721.617 1	2,721.617 1	0.0424	0.0594	2,740.389 7
Total	0.9685	6.4641	9.8091	0.0498	5.0689	0.0417	5.1106	1.3681	0.0395	1.4076	0.0000	4,941.096 7	4,941.096 7	0.0967	0.3908	5,059.985 9

3.5 Building Construction - 2037**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	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0673	686.0673	0.0256	0.0000	686.7061
Total	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0673	686.0673	0.0256	0.0000	686.7061

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2037****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	0.1383	6.0140	1.8618	0.0227	0.8602	0.0305	0.8907	0.2486	0.0292	0.2778	0.0000	2,211.008 4	2,211.008 4	0.0541	0.3301	2,310.742 8
Worker	0.8265	0.4254	7.9099	0.0269	4.1894	0.0111	4.2004	1.1142	0.0102	1.1244	0.0000	2,711.229 2	2,711.229 2	0.0422	0.0592	2,729.930 2
Total	0.9648	6.4394	9.7717	0.0496	5.0495	0.0416	5.0911	1.3628	0.0394	1.4022	0.0000	4,922.237 6	4,922.237 6	0.0963	0.3894	5,040.673 0

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	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0664	686.0664	0.0256	0.0000	686.7053
Total	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0664	686.0664	0.0256	0.0000	686.7053

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2037****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	0.1383	6.0140	1.8618	0.0227	0.8602	0.0305	0.8907	0.2486	0.0292	0.2778	0.0000	2,211.008 4	2,211.008 4	0.0541	0.3301	2,310.742 8
Worker	0.8265	0.4254	7.9099	0.0269	4.1894	0.0111	4.2004	1.1142	0.0102	1.1244	0.0000	2,711.229 2	2,711.229 2	0.0422	0.0592	2,729.930 2
Total	0.9648	6.4394	9.7717	0.0496	5.0495	0.0416	5.0911	1.3628	0.0394	1.4022	0.0000	4,922.237 6	4,922.237 6	0.0963	0.3894	5,040.673 0

3.5 Building Construction - 2038**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	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0673	686.0673	0.0256	0.0000	686.7061
Total	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0673	686.0673	0.0256	0.0000	686.7061

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2038****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	0.1383	6.0140	1.8618	0.0227	0.8602	0.0305	0.8907	0.2486	0.0292	0.2778	0.0000	2,211.008 4	2,211.008 4	0.0541	0.3301	2,310.742 8
Worker	0.8265	0.4254	7.9099	0.0269	4.1894	0.0111	4.2004	1.1142	0.0102	1.1244	0.0000	2,711.229 2	2,711.229 2	0.0422	0.0592	2,729.930 2
Total	0.9648	6.4394	9.7717	0.0496	5.0495	0.0416	5.0911	1.3628	0.0394	1.4022	0.0000	4,922.237 6	4,922.237 6	0.0963	0.3894	5,040.673 0

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	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0664	686.0664	0.0256	0.0000	686.7053
Total	0.3176	1.8691	4.2067	8.0800e-003		0.0236	0.0236		0.0236	0.0236	0.0000	686.0664	686.0664	0.0256	0.0000	686.7053

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2038

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	0.1383	6.0140	1.8618	0.0227	0.8602	0.0305	0.8907	0.2486	0.0292	0.2778	0.0000	2,211.008 4	2,211.008 4	0.0541	0.3301	2,310.742 8
Worker	0.8265	0.4254	7.9099	0.0269	4.1894	0.0111	4.2004	1.1142	0.0102	1.1244	0.0000	2,711.229 2	2,711.229 2	0.0422	0.0592	2,729.930 2
Total	0.9648	6.4394	9.7717	0.0496	5.0495	0.0416	5.0911	1.3628	0.0394	1.4022	0.0000	4,922.237 6	4,922.237 6	0.0963	0.3894	5,040.673 0

3.5 Building Construction - 2039

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	0.3164	1.8619	4.1906	8.0500e-003		0.0235	0.0235		0.0235	0.0235	0.0000	683.4387	683.4387	0.0255	0.0000	684.0750
Total	0.3164	1.8619	4.1906	8.0500e-003		0.0235	0.0235		0.0235	0.0235	0.0000	683.4387	683.4387	0.0255	0.0000	684.0750

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2039****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	0.1378	5.9909	1.8547	0.0226	0.8569	0.0304	0.8873	0.2476	0.0291	0.2767	0.0000	2,202.537 1	2,202.537 1	0.0539	0.3289	2,301.889 4
Worker	0.8234	0.4238	7.8796	0.0268	4.1733	0.0110	4.1843	1.1100	0.0101	1.1201	0.0000	2,700.841 3	2,700.841 3	0.0420	0.0590	2,719.470 7
Total	0.9611	6.4147	9.7343	0.0494	5.0302	0.0414	5.0716	1.3576	0.0392	1.3968	0.0000	4,903.378 4	4,903.378 4	0.0960	0.3879	5,021.360 1

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	0.3164	1.8619	4.1906	8.0500e-003		0.0235	0.0235		0.0235	0.0235	0.0000	683.4378	683.4378	0.0255	0.0000	684.0742
Total	0.3164	1.8619	4.1906	8.0500e-003		0.0235	0.0235		0.0235	0.0235	0.0000	683.4378	683.4378	0.0255	0.0000	684.0742

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2039

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	0.1378	5.9909	1.8547	0.0226	0.8569	0.0304	0.8873	0.2476	0.0291	0.2767	0.0000	2,202.537 1	2,202.537 1	0.0539	0.3289	2,301.889 4
Worker	0.8234	0.4238	7.8796	0.0268	4.1733	0.0110	4.1843	1.1100	0.0101	1.1201	0.0000	2,700.841 3	2,700.841 3	0.0420	0.0590	2,719.470 7
Total	0.9611	6.4147	9.7343	0.0494	5.0302	0.0414	5.0716	1.3576	0.0392	1.3968	0.0000	4,903.378 4	4,903.378 4	0.0960	0.3879	5,021.360 1

3.5 Building Construction - 2040

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	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0674	686.0674	0.0247	0.0000	686.6837
Total	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0674	686.0674	0.0247	0.0000	686.6837

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2040****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	0.1323	5.8421	1.8537	0.0217	0.8600	0.0296	0.8897	0.2485	0.0284	0.2769	0.0000	2,117.466 5	2,117.466 5	0.0524	0.3166	2,213.127 9
Worker	0.6671	0.3849	7.3355	0.0257	4.1894	8.7200e-003	4.1981	1.1142	8.0300e-003	1.1223	0.0000	2,629.535 8	2,629.535 8	0.0337	0.0568	2,647.313 6
Total	0.7994	6.2270	9.1892	0.0474	5.0494	0.0384	5.0878	1.3628	0.0364	1.3992	0.0000	4,747.002 3	4,747.002 3	0.0861	0.3735	4,860.441 6

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	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0665	686.0665	0.0247	0.0000	686.6829
Total	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0665	686.0665	0.0247	0.0000	686.6829

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2040****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	0.1323	5.8421	1.8537	0.0217	0.8600	0.0296	0.8897	0.2485	0.0284	0.2769	0.0000	2,117.466 5	2,117.466 5	0.0524	0.3166	2,213.127 9
Worker	0.6671	0.3849	7.3355	0.0257	4.1894	8.7200e-003	4.1981	1.1142	8.0300e-003	1.1223	0.0000	2,629.535 8	2,629.535 8	0.0337	0.0568	2,647.313 6
Total	0.7994	6.2270	9.1892	0.0474	5.0494	0.0384	5.0878	1.3628	0.0364	1.3992	0.0000	4,747.002 3	4,747.002 3	0.0861	0.3735	4,860.441 6

3.5 Building Construction - 2041**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	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0674	686.0674	0.0247	0.0000	686.6837
Total	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0674	686.0674	0.0247	0.0000	686.6837

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2041****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	0.1323	5.8421	1.8537	0.0217	0.8600	0.0296	0.8897	0.2485	0.0284	0.2769	0.0000	2,117.466 5	2,117.466 5	0.0524	0.3166	2,213.127 9
Worker	0.6671	0.3849	7.3355	0.0257	4.1894	8.7200e-003	4.1981	1.1142	8.0300e-003	1.1223	0.0000	2,629.535 8	2,629.535 8	0.0337	0.0568	2,647.313 6
Total	0.7994	6.2270	9.1892	0.0474	5.0494	0.0384	5.0878	1.3628	0.0364	1.3992	0.0000	4,747.002 3	4,747.002 3	0.0861	0.3735	4,860.441 6

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	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0665	686.0665	0.0247	0.0000	686.6829
Total	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0665	686.0665	0.0247	0.0000	686.6829

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2041

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	0.1323	5.8421	1.8537	0.0217	0.8600	0.0296	0.8897	0.2485	0.0284	0.2769	0.0000	2,117.466 5	2,117.466 5	0.0524	0.3166	2,213.127 9
Worker	0.6671	0.3849	7.3355	0.0257	4.1894	8.7200e-003	4.1981	1.1142	8.0300e-003	1.1223	0.0000	2,629.535 8	2,629.535 8	0.0337	0.0568	2,647.313 6
Total	0.7994	6.2270	9.1892	0.0474	5.0494	0.0384	5.0878	1.3628	0.0364	1.3992	0.0000	4,747.002 3	4,747.002 3	0.0861	0.3735	4,860.441 6

3.5 Building Construction - 2042

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	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0674	686.0674	0.0247	0.0000	686.6837
Total	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0674	686.0674	0.0247	0.0000	686.6837

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2042****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	0.1323	5.8421	1.8537	0.0217	0.8600	0.0296	0.8897	0.2485	0.0284	0.2769	0.0000	2,117.466 5	2,117.466 5	0.0524	0.3166	2,213.127 9
Worker	0.6671	0.3849	7.3355	0.0257	4.1894	8.7200e-003	4.1981	1.1142	8.0300e-003	1.1223	0.0000	2,629.535 8	2,629.535 8	0.0337	0.0568	2,647.313 6
Total	0.7994	6.2270	9.1892	0.0474	5.0494	0.0384	5.0878	1.3628	0.0364	1.3992	0.0000	4,747.002 3	4,747.002 3	0.0861	0.3735	4,860.441 6

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	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0665	686.0665	0.0247	0.0000	686.6829
Total	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0665	686.0665	0.0247	0.0000	686.6829

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2042

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	0.1323	5.8421	1.8537	0.0217	0.8600	0.0296	0.8897	0.2485	0.0284	0.2769	0.0000	2,117.466 5	2,117.466 5	0.0524	0.3166	2,213.127 9
Worker	0.6671	0.3849	7.3355	0.0257	4.1894	8.7200e-003	4.1981	1.1142	8.0300e-003	1.1223	0.0000	2,629.535 8	2,629.535 8	0.0337	0.0568	2,647.313 6
Total	0.7994	6.2270	9.1892	0.0474	5.0494	0.0384	5.0878	1.3628	0.0364	1.3992	0.0000	4,747.002 3	4,747.002 3	0.0861	0.3735	4,860.441 6

3.5 Building Construction - 2043

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	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0674	686.0674	0.0247	0.0000	686.6837
Total	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0674	686.0674	0.0247	0.0000	686.6837

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2043****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	0.1323	5.8421	1.8537	0.0217	0.8600	0.0296	0.8897	0.2485	0.0284	0.2769	0.0000	2,117.466 5	2,117.466 5	0.0524	0.3166	2,213.127 9
Worker	0.6671	0.3849	7.3355	0.0257	4.1894	8.7200e-003	4.1981	1.1142	8.0300e-003	1.1223	0.0000	2,629.535 8	2,629.535 8	0.0337	0.0568	2,647.313 6
Total	0.7994	6.2270	9.1892	0.0474	5.0494	0.0384	5.0878	1.3628	0.0364	1.3992	0.0000	4,747.002 3	4,747.002 3	0.0861	0.3735	4,860.441 6

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	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0665	686.0665	0.0247	0.0000	686.6829
Total	0.3124	1.7984	4.2069	8.0800e-003		0.0192	0.0192		0.0192	0.0192	0.0000	686.0665	686.0665	0.0247	0.0000	686.6829

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2043****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	0.1323	5.8421	1.8537	0.0217	0.8600	0.0296	0.8897	0.2485	0.0284	0.2769	0.0000	2,117.466 5	2,117.466 5	0.0524	0.3166	2,213.127 9
Worker	0.6671	0.3849	7.3355	0.0257	4.1894	8.7200e-003	4.1981	1.1142	8.0300e-003	1.1223	0.0000	2,629.535 8	2,629.535 8	0.0337	0.0568	2,647.313 6
Total	0.7994	6.2270	9.1892	0.0474	5.0494	0.0384	5.0878	1.3628	0.0364	1.3992	0.0000	4,747.002 3	4,747.002 3	0.0861	0.3735	4,860.441 6

3.5 Building Construction - 2044**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	0.2729	1.5710	3.6750	7.0600e-003		0.0168	0.0168		0.0168	0.0168	0.0000	599.3232	599.3232	0.0215	0.0000	599.8617
Total	0.2729	1.5710	3.6750	7.0600e-003		0.0168	0.0168		0.0168	0.0168	0.0000	599.3232	599.3232	0.0215	0.0000	599.8617

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2044

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	0.1156	5.1035	1.6193	0.0190	0.7513	0.0259	0.7772	0.2171	0.0248	0.2419	0.0000	1,849.740 9	1,849.740 9	0.0458	0.2766	1,933.307 2
Worker	0.5828	0.3362	6.4080	0.0225	3.6597	7.6200e-003	3.6673	0.9734	7.0100e-003	0.9804	0.0000	2,297.065 7	2,297.065 7	0.0295	0.0496	2,312.595 8
Total	0.6983	5.4397	8.0273	0.0414	4.4110	0.0335	4.4445	1.1905	0.0318	1.2223	0.0000	4,146.806 6	4,146.806 6	0.0752	0.3262	4,245.903 0

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	0.2729	1.5710	3.6750	7.0600e-003		0.0168	0.0168		0.0168	0.0168	0.0000	599.3225	599.3225	0.0215	0.0000	599.8609
Total	0.2729	1.5710	3.6750	7.0600e-003		0.0168	0.0168		0.0168	0.0168	0.0000	599.3225	599.3225	0.0215	0.0000	599.8609

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.5 Building Construction - 2044

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	0.1156	5.1035	1.6193	0.0190	0.7513	0.0259	0.7772	0.2171	0.0248	0.2419	0.0000	1,849.740 9	1,849.740 9	0.0458	0.2766	1,933.307 2
Worker	0.5828	0.3362	6.4080	0.0225	3.6597	7.6200e-003	3.6673	0.9734	7.0100e-003	0.9804	0.0000	2,297.065 7	2,297.065 7	0.0295	0.0496	2,312.595 8
Total	0.6983	5.4397	8.0273	0.0414	4.4110	0.0335	4.4445	1.1905	0.0318	1.2223	0.0000	4,146.806 6	4,146.806 6	0.0752	0.3262	4,245.903 0

3.6 Arch Coating - 2032

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0341	0.2235	0.4692	7.8000e-004		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	66.6399	66.6399	2.7000e-003	0.0000	66.7074
Total	5.3252	0.2235	0.4692	7.8000e-004		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	66.6399	66.6399	2.7000e-003	0.0000	66.7074

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2032****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1922	0.0955	1.7010	5.6400e-003	0.8377	2.6500e-003	0.8403	0.2228	2.4400e-003	0.2252	0.0000	559.8756	559.8756	0.0101	0.0125	563.8494
Total	0.1922	0.0955	1.7010	5.6400e-003	0.8377	2.6500e-003	0.8403	0.2228	2.4400e-003	0.2252	0.0000	559.8756	559.8756	0.0101	0.0125	563.8494

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0341	0.2235	0.4692	7.8000e-004		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	66.6398	66.6398	2.7000e-003	0.0000	66.7073
Total	5.3252	0.2235	0.4692	7.8000e-004		5.3000e-003	5.3000e-003		5.3000e-003	5.3000e-003	0.0000	66.6398	66.6398	2.7000e-003	0.0000	66.7073

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2032****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1922	0.0955	1.7010	5.6400e-003	0.8377	2.6500e-003	0.8403	0.2228	2.4400e-003	0.2252	0.0000	559.8756	559.8756	0.0101	0.0125	563.8494
Total	0.1922	0.0955	1.7010	5.6400e-003	0.8377	2.6500e-003	0.8403	0.2228	2.4400e-003	0.2252	0.0000	559.8756	559.8756	0.0101	0.0125	563.8494

3.6 Arch Coating - 2033**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	5.2708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0340	0.2226	0.4674	7.7000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	66.3846	66.3846	2.6900e-003	0.0000	66.4518
Total	5.3048	0.2226	0.4674	7.7000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	66.3846	66.3846	2.6900e-003	0.0000	66.4518

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1817	0.0910	1.6496	5.5200e-003	0.8345	2.4800e-003	0.8370	0.2219	2.2800e-003	0.2242	0.0000	550.9832	550.9832	9.4400e-003	0.0122	554.8487
Total	0.1817	0.0910	1.6496	5.5200e-003	0.8345	2.4800e-003	0.8370	0.2219	2.2800e-003	0.2242	0.0000	550.9832	550.9832	9.4400e-003	0.0122	554.8487

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	5.2708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0340	0.2226	0.4674	7.7000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	66.3845	66.3845	2.6900e-003	0.0000	66.4517
Total	5.3048	0.2226	0.4674	7.7000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	66.3845	66.3845	2.6900e-003	0.0000	66.4517

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1817	0.0910	1.6496	5.5200e-003	0.8345	2.4800e-003	0.8370	0.2219	2.2800e-003	0.2242	0.0000	550.9832	550.9832	9.4400e-003	0.0122	554.8487
Total	0.1817	0.0910	1.6496	5.5200e-003	0.8345	2.4800e-003	0.8370	0.2219	2.2800e-003	0.2242	0.0000	550.9832	550.9832	9.4400e-003	0.0122	554.8487

3.6 Arch Coating - 2034

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	5.2708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0340	0.2226	0.4674	7.7000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	66.3846	66.3846	2.6900e-003	0.0000	66.4518
Total	5.3048	0.2226	0.4674	7.7000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	66.3846	66.3846	2.6900e-003	0.0000	66.4518

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1728	0.0875	1.6097	5.4300e-003	0.8345	2.3300e-003	0.8368	0.2219	2.1500e-003	0.2241	0.0000	545.0900	545.0900	8.8900e-003	0.0120	548.8777
Total	0.1728	0.0875	1.6097	5.4300e-003	0.8345	2.3300e-003	0.8368	0.2219	2.1500e-003	0.2241	0.0000	545.0900	545.0900	8.8900e-003	0.0120	548.8777

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	5.2708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0340	0.2226	0.4674	7.7000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	66.3845	66.3845	2.6900e-003	0.0000	66.4517
Total	5.3048	0.2226	0.4674	7.7000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	66.3845	66.3845	2.6900e-003	0.0000	66.4517

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1728	0.0875	1.6097	5.4300e-003	0.8345	2.3300e-003	0.8368	0.2219	2.1500e-003	0.2241	0.0000	545.0900	545.0900	8.8900e-003	0.0120	548.8777
Total	0.1728	0.0875	1.6097	5.4300e-003	0.8345	2.3300e-003	0.8368	0.2219	2.1500e-003	0.2241	0.0000	545.0900	545.0900	8.8900e-003	0.0120	548.8777

3.6 Arch Coating - 2035

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0308	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6399	66.6399	2.4600e-003	0.0000	66.7015
Total	5.3219	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6399	66.6399	2.4600e-003	0.0000	66.7015

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611
Total	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0308	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6398	66.6398	2.4600e-003	0.0000	66.7014
Total	5.3219	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6398	66.6398	2.4600e-003	0.0000	66.7014

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611
Total	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611

3.6 Arch Coating - 2036

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	5.3114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0309	0.1985	0.4701	7.8000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	66.8953	66.8953	2.4700e-003	0.0000	66.9571
Total	5.3423	0.1985	0.4701	7.8000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	66.8953	66.8953	2.4700e-003	0.0000	66.9571

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1659	0.0854	1.5877	5.4000e-003	0.8409	2.2200e-003	0.8431	0.2237	2.0400e-003	0.2257	0.0000	544.1989	544.1989	8.4700e-003	0.0119	547.9525
Total	0.1659	0.0854	1.5877	5.4000e-003	0.8409	2.2200e-003	0.8431	0.2237	2.0400e-003	0.2257	0.0000	544.1989	544.1989	8.4700e-003	0.0119	547.9525

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	5.3114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0309	0.1985	0.4701	7.8000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	66.8952	66.8952	2.4700e-003	0.0000	66.9570
Total	5.3423	0.1985	0.4701	7.8000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	66.8952	66.8952	2.4700e-003	0.0000	66.9570

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1659	0.0854	1.5877	5.4000e-003	0.8409	2.2200e-003	0.8431	0.2237	2.0400e-003	0.2257	0.0000	544.1989	544.1989	8.4700e-003	0.0119	547.9525
Total	0.1659	0.0854	1.5877	5.4000e-003	0.8409	2.2200e-003	0.8431	0.2237	2.0400e-003	0.2257	0.0000	544.1989	544.1989	8.4700e-003	0.0119	547.9525

3.6 Arch Coating - 2037

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0308	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6399	66.6399	2.4600e-003	0.0000	66.7015
Total	5.3219	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6399	66.6399	2.4600e-003	0.0000	66.7015

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2037****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611
Total	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0308	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6398	66.6398	2.4600e-003	0.0000	66.7014
Total	5.3219	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6398	66.6398	2.4600e-003	0.0000	66.7014

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611
Total	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611

3.6 Arch Coating - 2038

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0308	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6399	66.6399	2.4600e-003	0.0000	66.7015
Total	5.3219	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6399	66.6399	2.4600e-003	0.0000	66.7015

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611
Total	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0308	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6398	66.6398	2.4600e-003	0.0000	66.7014
Total	5.3219	0.1978	0.4683	7.8000e-004		2.5900e-003	2.5900e-003		2.5900e-003	2.5900e-003	0.0000	66.6398	66.6398	2.4600e-003	0.0000	66.7014

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611
Total	0.1653	0.0851	1.5816	5.3800e-003	0.8377	2.2100e-003	0.8399	0.2228	2.0300e-003	0.2248	0.0000	542.1218	542.1218	8.4400e-003	0.0118	545.8611

3.6 Arch Coating - 2039

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	5.2708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.1970	0.4665	7.7000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	66.3846	66.3846	2.4500e-003	0.0000	66.4459
Total	5.3015	0.1970	0.4665	7.7000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	66.3846	66.3846	2.4500e-003	0.0000	66.4459

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1646	0.0847	1.5756	5.3600e-003	0.8345	2.2000e-003	0.8367	0.2219	2.0300e-003	0.2240	0.0000	540.0447	540.0447	8.4100e-003	0.0118	543.7697
Total	0.1646	0.0847	1.5756	5.3600e-003	0.8345	2.2000e-003	0.8367	0.2219	2.0300e-003	0.2240	0.0000	540.0447	540.0447	8.4100e-003	0.0118	543.7697

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	5.2708					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.1970	0.4665	7.7000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	66.3845	66.3845	2.4500e-003	0.0000	66.4459
Total	5.3015	0.1970	0.4665	7.7000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	66.3845	66.3845	2.4500e-003	0.0000	66.4459

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1646	0.0847	1.5756	5.3600e-003	0.8345	2.2000e-003	0.8367	0.2219	2.0300e-003	0.2240	0.0000	540.0447	540.0447	8.4100e-003	0.0118	543.7697
Total	0.1646	0.0847	1.5756	5.3600e-003	0.8345	2.2000e-003	0.8367	0.2219	2.0300e-003	0.2240	0.0000	540.0447	540.0447	8.4100e-003	0.0118	543.7697

3.6 Arch Coating - 2040

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6399	66.6399	2.3500e-003	0.0000	66.6986
Total	5.3211	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6399	66.6399	2.3500e-003	0.0000	66.6986

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2040

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416
Total	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6398	66.6398	2.3500e-003	0.0000	66.6985
Total	5.3211	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6398	66.6398	2.3500e-003	0.0000	66.6985

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2040

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416
Total	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416

3.6 Arch Coating - 2041

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6399	66.6399	2.3500e-003	0.0000	66.6986
Total	5.3211	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6399	66.6399	2.3500e-003	0.0000	66.6986

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2041

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416
Total	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6398	66.6398	2.3500e-003	0.0000	66.6985
Total	5.3211	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6398	66.6398	2.3500e-003	0.0000	66.6985

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2041

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416
Total	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416

3.6 Arch Coating - 2042

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6399	66.6399	2.3500e-003	0.0000	66.6986
Total	5.3211	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6399	66.6399	2.3500e-003	0.0000	66.6986

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2042

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416
Total	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6398	66.6398	2.3500e-003	0.0000	66.6985
Total	5.3211	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6398	66.6398	2.3500e-003	0.0000	66.6985

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2042

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416
Total	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416

3.6 Arch Coating - 2043

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6399	66.6399	2.3500e-003	0.0000	66.6986
Total	5.3211	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6399	66.6399	2.3500e-003	0.0000	66.6986

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2043

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416
Total	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416

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	5.2911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6398	66.6398	2.3500e-003	0.0000	66.6985
Total	5.3211	0.1898	0.4678	7.8000e-004		1.9400e-003	1.9400e-003		1.9400e-003	1.9400e-003	0.0000	66.6398	66.6398	2.3500e-003	0.0000	66.6985

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2043

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416
Total	0.1334	0.0770	1.4668	5.1400e-003	0.8377	1.7400e-003	0.8394	0.2228	1.6100e-003	0.2244	0.0000	525.7868	525.7868	6.7400e-003	0.0114	529.3416

3.6 Arch Coating - 2044

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	4.8451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0275	0.1738	0.4284	7.1000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	61.0228	61.0228	2.1500e-003	0.0000	61.0765
Total	4.8726	0.1738	0.4284	7.1000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	61.0228	61.0228	2.1500e-003	0.0000	61.0765

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

3.6 Arch Coating - 2044

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1222	0.0705	1.3431	4.7000e-003	0.7671	1.6000e-003	0.7687	0.2040	1.4700e-003	0.2055	0.0000	481.4676	481.4676	6.1700e-003	0.0104	484.7228
Total	0.1222	0.0705	1.3431	4.7000e-003	0.7671	1.6000e-003	0.7687	0.2040	1.4700e-003	0.2055	0.0000	481.4676	481.4676	6.1700e-003	0.0104	484.7228

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	4.8451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0275	0.1738	0.4284	7.1000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	61.0227	61.0227	2.1500e-003	0.0000	61.0764
Total	4.8726	0.1738	0.4284	7.1000e-004		1.7800e-003	1.7800e-003		1.7800e-003	1.7800e-003	0.0000	61.0227	61.0227	2.1500e-003	0.0000	61.0764

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2044****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1222	0.0705	1.3431	4.7000e-003	0.7671	1.6000e-003	0.7687	0.2040	1.4700e-003	0.2055	0.0000	481.4676	481.4676	6.1700e-003	0.0104	484.7228
Total	0.1222	0.0705	1.3431	4.7000e-003	0.7671	1.6000e-003	0.7687	0.2040	1.4700e-003	0.2055	0.0000	481.4676	481.4676	6.1700e-003	0.0104	484.7228

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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	25.7928	29.2084	255.1674	0.5021	72.1700	0.2478	72.4178	19.2673	0.2317	19.4990	0.0000	51,181.4254	51,181.4254	3.4580	2.5285	52,021.3662
Unmitigated	25.7928	29.2084	255.1674	0.5021	72.1700	0.2478	72.4178	19.2673	0.2317	19.4990	0.0000	51,181.4254	51,181.4254	3.4580	2.5285	52,021.3662

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	15,531.20	14,018.05	11676.95	37,887,133	37,887,133
Arena	771.12	771.12	771.12	1,084,591	1,084,591
Fast Food Restaurant with Drive Thru	11,302.80	14,786.88	11341.92	8,155,601	8,155,601
General Office Building	3,126.54	709.41	224.70	4,887,455	4,887,455
Government Office Building	1,671.66	0.00	0.00	1,716,849	1,716,849
Health Club	2,140.45	1,356.55	1737.45	2,722,032	2,722,032
High School	3,045.00	870.00	375.00	6,128,331	6,128,331
High Turnover (Sit Down Restaurant)	11,666.72	12,729.60	14834.56	10,904,068	10,904,068
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Junior College (2yr)	2,875.00	1,050.00	100.00	4,083,979	4,083,979
Junior High School	4,579.50	0.00	0.00	7,200,145	7,200,145
Medical Office Building	1,447.68	356.51	59.07	1,821,430	1,821,430
Regional Shopping Center	9,248.75	11,299.40	5169.50	12,518,386	12,518,386
Single Family Housing	31,152.00	31,482.00	28215.00	78,983,735	78,983,735
Supermarket	6,940.70	11,545.30	10820.55	7,015,866	7,015,866
Total	112,354.32	107,690.62	90,204.82	195,190,100	195,190,100

4.3 Trip Type Information

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down Restaurant)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	0.0000	0.0000	1.0774	0.1306	65.8525
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	1.0774	0.1306	65.8525
NaturalGas Mitigated	1.0724	9.4407	5.9257	0.0585		0.7410	0.7410		0.7410	0.7410	0.0000	10,613.43 48	10,613.43 48	0.2034	0.1946	10,676.50 52
NaturalGas Unmitigated	1.0724	9.4407	5.9257	0.0585		0.7410	0.7410		0.7410	0.7410	0.0000	10,613.43 48	10,613.43 48	0.2034	0.1946	10,676.50 52

5.2 Energy by Land Use - NaturalGas**Unmitigated**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.68833e+007	0.1450	1.2387	0.5271	7.9100e-003		0.1002	0.1002		0.1002	0.1002	0.0000	1,434.5972	1,434.5972	0.0275	0.0263	1,443.1223
Arena	2.56104e+006	0.0138	0.1255	0.1055	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	136.6669	136.6669	2.6200e-003	2.5100e-003	137.4790
Fast Food Restaurant with Drive Thru	4.25064e+006	0.0229	0.2084	0.1750	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.8303	226.8303	4.3500e-003	4.1600e-003	228.1783
General Office Building	4.16658e+006	0.0225	0.2042	0.1716	1.2300e-003		0.0155	0.0155		0.0155	0.0155	0.0000	222.3446	222.3446	4.2600e-003	4.0800e-003	223.6659
Government Office Building	960520	5.1800e-003	0.0471	0.0396	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2570	51.2570	9.8000e-004	9.4000e-004	51.5616
Health Club	2.31205e+006	0.0125	0.1133	0.0952	6.8000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	123.3798	123.3798	2.3600e-003	2.2600e-003	124.1130
High School	3.00875e+006	0.0162	0.1475	0.1239	8.8000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.5584	160.5584	3.0800e-003	2.9400e-003	161.5125
High Turnover (Sit Down Restaurant)	1.84194e+007	0.0993	0.9029	0.7585	5.4200e-003		0.0686	0.0686		0.0686	0.0686	0.0000	982.9315	982.9315	0.0188	0.0180	988.7725
Hotel	2.2765e+007	0.2455	2.2319	1.8748	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.6581	2,429.6581	0.0466	0.0445	2,444.0964
Junior College (2yr)	5.40384e+006	0.0291	0.2649	0.2225	1.5900e-003		0.0201	0.0201		0.0201	0.0201	0.0000	288.3695	288.3695	5.5300e-003	5.2900e-003	290.0831
Junior High School	3.8217e+006	0.0206	0.1873	0.1574	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.9402	203.9402	3.9100e-003	3.7400e-003	205.1521
Medical Office Building	539968	2.9100e-003	0.0265	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8148	28.8148	5.5000e-004	5.3000e-004	28.9860
Regional Shopping Center	1.31565e+006	7.0900e-003	0.0645	0.0542	3.9000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	70.2081	70.2081	1.3500e-003	1.2900e-003	70.6253
Single Family Housing	7.80741e+007	0.4210	3.5975	1.5309	0.0230		0.2909	0.2909		0.2909	0.2909	0.0000	4,166.3299	4,166.3299	0.0799	0.0764	4,191.0883
Supermarket	1.6406e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5487	87.5487	1.6800e-003	1.6100e-003	88.0689
Total		1.0725	9.4407	5.9257	0.0585		0.7409	0.7409		0.7409	0.7409	0.0000	10,613.4348	10,613.4348	0.2034	0.1946	10,676.5052

5.2 Energy by Land Use - NaturalGas

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.68833e+007	0.1450	1.2387	0.5271	7.9100e-003		0.1002	0.1002		0.1002	0.1002	0.0000	1,434.5972	1,434.5972	0.0275	0.0263	1,443.1223
Arena	2.56104e+006	0.0138	0.1255	0.1055	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	136.6669	136.6669	2.6200e-003	2.5100e-003	137.4790
Fast Food Restaurant with Drive Thru	4.25064e+006	0.0229	0.2084	0.1750	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.8303	226.8303	4.3500e-003	4.1600e-003	228.1783
General Office Building	4.16658e+006	0.0225	0.2042	0.1716	1.2300e-003		0.0155	0.0155		0.0155	0.0155	0.0000	222.3446	222.3446	4.2600e-003	4.0800e-003	223.6659
Government Office Building	960520	5.1800e-003	0.0471	0.0396	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2570	51.2570	9.8000e-004	9.4000e-004	51.5616
Health Club	2.31205e+006	0.0125	0.1133	0.0952	6.8000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	123.3798	123.3798	2.3600e-003	2.2600e-003	124.1130
High School	3.00875e+006	0.0162	0.1475	0.1239	8.8000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.5584	160.5584	3.0800e-003	2.9400e-003	161.5125
High Turnover (Sit Down Restaurant)	1.84194e+007	0.0993	0.9029	0.7585	5.4200e-003		0.0686	0.0686		0.0686	0.0686	0.0000	982.9315	982.9315	0.0188	0.0180	988.7725
Hotel	2.2765e+007	0.2455	2.2319	1.8748	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.6581	2,429.6581	0.0466	0.0445	2,444.0964
Junior College (2yr)	5.40384e+006	0.0291	0.2649	0.2225	1.5900e-003		0.0201	0.0201		0.0201	0.0201	0.0000	288.3695	288.3695	5.5300e-003	5.2900e-003	290.0831
Junior High School	3.8217e+006	0.0206	0.1873	0.1574	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.9402	203.9402	3.9100e-003	3.7400e-003	205.1521
Medical Office Building	539968	2.9100e-003	0.0265	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8148	28.8148	5.5000e-004	5.3000e-004	28.9860
Regional Shopping Center	1.31565e+006	7.0900e-003	0.0645	0.0542	3.9000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	70.2081	70.2081	1.3500e-003	1.2900e-003	70.6253
Single Family Housing	7.80741e+007	0.4210	3.5975	1.5309	0.0230		0.2909	0.2909		0.2909	0.2909	0.0000	4,166.3299	4,166.3299	0.0799	0.0764	4,191.0883
Supermarket	1.6406e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5487	87.5487	1.6800e-003	1.6100e-003	88.0689
Total		1.0725	9.4407	5.9257	0.0585		0.7409	0.7409		0.7409	0.7409	0.0000	10,613.4348	10,613.4348	0.2034	0.1946	10,676.5052

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.11166e+007	0.0000	0.1664	0.0202	10.1705
Arena	1.06704e+006	0.0000	0.0160	1.9400e-003	0.9762
Fast Food Restaurant with Drive Thru	978480	0.0000	0.0147	1.7800e-003	0.8952
General Office Building	4.4619e+006	0.0000	0.0668	8.1000e-003	4.0822
Government Office Building	1.0286e+006	0.0000	0.0154	1.8700e-003	0.9411
Health Club	963300	0.0000	0.0144	1.7500e-003	0.8813
High School	1.41284e+006	0.0000	0.0212	2.5600e-003	1.2926
High Turnover (Sit Down Restaurant)	4.24008e+006	0.0000	0.0635	7.6900e-003	3.8792
Hotel	5.60791e+006	0.0000	0.1679	0.0204	10.2613
Junior College (2yr)	1.69104e+006	0.0000	0.0253	3.0700e-003	1.5471
Junior High School	1.79458e+006	0.0000	0.0269	3.2600e-003	1.6419
Medical Office Building	578240	0.0000	8.6600e-003	1.0500e-003	0.5290
Regional Shopping Center	2.7489e+006	0.0000	0.0412	4.9900e-003	2.5150
Single Family Housing	2.60944e+007	0.0000	0.3906	0.0473	23.8737
Supermarket	2.58635e+006	0.0000	0.0387	4.6900e-003	2.3662
Total		0.0000	1.0774	0.1306	65.8525

5.3 Energy by Land Use - Electricity**Mitigated**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.11166e+007	0.0000	0.1664	0.0202	10.1705
Arena	1.06704e+006	0.0000	0.0160	1.9400e-003	0.9762
Fast Food Restaurant with Drive Thru	978480	0.0000	0.0147	1.7800e-003	0.8952
General Office Building	4.4619e+006	0.0000	0.0668	8.1000e-003	4.0822
Government Office Building	1.0286e+006	0.0000	0.0154	1.8700e-003	0.9411
Health Club	963300	0.0000	0.0144	1.7500e-003	0.8813
High School	1.41284e+006	0.0000	0.0212	2.5600e-003	1.2926
High Turnover (Sit Down Restaurant)	4.24008e+006	0.0000	0.0635	7.6900e-003	3.8792
Hotel	5.60791e+006	0.0000	0.1679	0.0204	10.2613
Junior College (2yr)	1.69104e+006	0.0000	0.0253	3.0700e-003	1.5471
Junior High School	1.79458e+006	0.0000	0.0269	3.2600e-003	1.6419
Medical Office Building	578240	0.0000	8.6600e-003	1.0500e-003	0.5290
Regional Shopping Center	2.7489e+006	0.0000	0.0412	4.9900e-003	2.5150
Single Family Housing	2.60944e+007	0.0000	0.3906	0.0473	23.8737
Supermarket	2.58635e+006	0.0000	0.0387	4.6900e-003	2.3662
Total		0.0000	1.0774	0.1306	65.8525

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	54.2555	0.7304	63.2968	3.3600e-003		0.3524	0.3524		0.3524	0.3524	0.0000	103.8824	103.8824	0.0992	0.0000	106.3625
Unmitigated	54.2555	0.7304	63.2968	3.3600e-003		0.3524	0.3524		0.3524	0.3524	0.0000	103.8824	103.8824	0.0992	0.0000	106.3625

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	6.8298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.5264					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8994	0.7304	63.2968	3.3600e-003		0.3524	0.3524		0.3524	0.3524	0.0000	103.8824	103.8824	0.0992	0.0000	106.3625
Total	54.2555	0.7304	63.2968	3.3600e-003		0.3524	0.3524		0.3524	0.3524	0.0000	103.8824	103.8824	0.0992	0.0000	106.3625

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Architectural Coating	6.8298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.5264					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8994	0.7304	63.2968	3.3600e-003		0.3524	0.3524		0.3524	0.3524	0.0000	103.8824	103.8824	0.0992	0.0000	106.3625
Total	54.2555	0.7304	63.2968	3.3600e-003		0.3524	0.3524		0.3524	0.3524	0.0000	103.8824	103.8824	0.0992	0.0000	106.3625

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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	217.8858	0.8108	0.4812	381.5577
Unmitigated	217.8858	0.8146	0.4817	381.7864

7.2 Water by Land Use

Unmitigated

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	186.015 / 117.27	65.8123	0.2465	0.1456	115.3486
Arena	31.0154 / 1.97971	10.9733	0.0402	0.0242	19.1766
Fast Food Restaurant with Drive Thru	7.28481 / 0.464988	2.5774	9.4400e-003	5.6700e-003	4.5041
General Office Building	57.0525 / 34.9677	20.1853	0.0756	0.0446	35.3753
Government Office Building	14.7008 / 9.01018	5.2012	0.0195	0.0115	9.1152
Health Club	3.8443 / 2.35619	1.3601	5.0900e-003	3.0100e-003	2.3837
High School	6.60744 / 16.9906	2.3377	9.4300e-003	5.2500e-003	4.1384
High Turnover (Sit Down Restaurant)	31.5675 / 2.01495	11.1686	0.0409	0.0246	19.5179
Hotel	20.8008 / 2.31119	7.3593	0.0270	0.0162	12.8641
Junior College (2yr)	5.35275 / 8.37225	1.8938	7.3600e-003	4.2200e-003	3.3353
Junior High School	5.21212 / 13.4026	1.8441	7.4400e-003	4.1400e-003	3.2645
Medical Office Building	5.21999 / 0.994284	1.8468	6.8000e-003	4.0700e-003	3.2296
Regional Shopping Center	18.1478 / 11.1228	6.4207	0.0240	0.0142	11.2525
Single Family Housing	215.008 / 135.549	76.0703	0.2850	0.1682	133.3276
Supermarket	8.01243 / 0.247807	2.8348	0.0104	6.2400e-003	4.9532
Total		217.8858	0.8146	0.4817	381.7864

7.2 Water by Land Use**Mitigated**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	186.015 / 93.8161	65.8123	0.2453	0.1454	115.2735
Arena	31.0154 / 1.58377	10.9733	0.0402	0.0242	19.1753
Fast Food Restaurant with Drive Thru	7.28481 / 0.37199	2.5774	9.4300e-003	5.6700e-003	4.5038
General Office Building	57.0525 / 27.9741	20.1853	0.0752	0.0446	35.3529
Government Office Building	14.7008 / 7.20814	5.2012	0.0194	0.0115	9.1095
Health Club	3.8443 / 1.88495	1.3601	5.0700e-003	3.0000e-003	2.3822
High School	6.60744 / 13.5924	2.3377	9.2500e-003	5.2300e-003	4.1275
High Turnover (Sit Down Restaurant)	31.5675 / 1.61196	11.1686	0.0409	0.0246	19.5166
Hotel	20.8008 / 1.84896	7.3593	0.0270	0.0162	12.8626
Junior College (2yr)	5.35275 / 6.6978	1.8938	7.2700e-003	4.2100e-003	3.3299
Junior High School	5.21212 / 10.7221	1.8441	7.3000e-003	4.1300e-003	3.2559
Medical Office Building	5.21999 / 0.795427	1.8468	6.7900e-003	4.0700e-003	3.2290
Regional Shopping Center	18.1478 / 8.89826	6.4207	0.0239	0.0142	11.2454
Single Family Housing	215.008 / 108.439	76.0703	0.2835	0.1681	133.2408
Supermarket	8.01243 / 0.198246	2.8348	0.0104	6.2400e-003	4.9530
Total		217.8858	0.8109	0.4812	381.5577

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,904.7860	112.5696	0.0000	4,719.0267
Unmitigated	1,904.7860	112.5696	0.0000	4,719.0267

8.2 Waste by Land Use

Unmitigated

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1313.3	266.5880	15.7549	0.0000	660.4606
Arena	1.98	0.4019	0.0238	0.0000	0.9958
Fast Food Restaurant with Drive Thru	276.45	56.1169	3.3164	0.0000	139.0271
General Office Building	298.53	60.5989	3.5813	0.0000	150.1312
Government Office Building	68.82	13.9698	0.8256	0.0000	34.6097
Health Club	370.5	75.2082	4.4447	0.0000	186.3250
High School	273.75	55.5688	3.2840	0.0000	137.6693
High Turnover (Sit Down Restaurant)	1237.6	251.2216	14.8468	0.0000	622.3909
Hotel	448.95	91.1328	5.3858	0.0000	225.7776
Junior College (2yr)	456.25	92.6146	5.4734	0.0000	229.4488
Junior High School	392.38	79.6496	4.7072	0.0000	197.3285
Medical Office Building	449.28	91.1998	5.3898	0.0000	225.9436
Regional Shopping Center	257.25	52.2194	3.0861	0.0000	129.3714
Single Family Housing	3171.96	643.8792	38.0522	0.0000	1,595.1835
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
Total		1,904.7860	112.5696	0.0000	4,719.0267

8.2 Waste by Land Use**Mitigated**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1313.3	266.5880	15.7549	0.0000	660.4606
Arena	1.98	0.4019	0.0238	0.0000	0.9958
Fast Food Restaurant with Drive Thru	276.45	56.1169	3.3164	0.0000	139.0271
General Office Building	298.53	60.5989	3.5813	0.0000	150.1312
Government Office Building	68.82	13.9698	0.8256	0.0000	34.6097
Health Club	370.5	75.2082	4.4447	0.0000	186.3250
High School	273.75	55.5688	3.2840	0.0000	137.6693
High Turnover (Sit Down Restaurant)	1237.6	251.2216	14.8468	0.0000	622.3909
Hotel	448.95	91.1328	5.3858	0.0000	225.7776
Junior College (2yr)	456.25	92.6146	5.4734	0.0000	229.4488
Junior High School	392.38	79.6496	4.7072	0.0000	197.3285
Medical Office Building	449.28	91.1998	5.3898	0.0000	225.9436
Regional Shopping Center	257.25	52.2194	3.0861	0.0000	129.3714
Single Family Housing	3171.96	643.8792	38.0522	0.0000	1,595,183 5
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
Total		1,904.786 0	112.5696	0.0000	4,719,026 7

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

UWSP - Construction of Non-Phase I
Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	321.00	1000sqft	7.37	321,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	2,150.00	Student	5.80	252,757.62	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	2,855.00	Dwelling Unit	75.13	2,855,000.00	7623
Single Family Housing	3,300.00	Dwelling Unit	1,071.43	5,940,000.00	8811
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

(lb/MW hr)

(lb/MW hr)

(lb/MW hr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - Land uses adjusted to remove Phase I.

Construction Phase - Construction phasing adjusted to reflect 20-year buildout.

Off-road Equipment - Fleet mix adjusted based on size/timing of project.

Off-road Equipment - Fleet mix adjusted based on size/timing of project.

Off-road Equipment - Fleet mix adjusted based on size/timing of grading phase.

Off-road Equipment -

Grading -

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	11,000.00	3,369.00
tblConstructionPhase	NumDays	155,000.00	3,369.00
tblConstructionPhase	NumDays	15,500.00	120.00
tblConstructionPhase	NumDays	11,000.00	120.00
tblConstructionPhase	NumDays	6,000.00	120.00
tblGrading	AcresOfGrading	3,660.00	360.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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
Year	lb/day										lb/day					
2030	2.4798	13.6835	16.6236	0.0476	19.7939	0.4371	20.2311	10.1388	0.4371	10.5759	0.0000	4,519.5356	4,519.5356	0.2195	2.1700e-003	4,525.6688
2031	25.4874	103.5126	125.5010	0.5025	40.0352	3.8781	40.6873	10.7725	3.8779	11.4052	0.0000	56,195.0575	56,195.0575	2.2554	3.4343	56,254.5761
2032	54.8954	66.5277	140.5947	0.5320	46.6834	0.7022	47.3856	12.5360	0.6819	13.2179	0.0000	56,803.1837	56,803.1837	1.2062	3.4805	57,870.5302
2033	54.3387	65.9372	138.1516	0.5246	46.6831	0.6914	47.3745	12.5358	0.6718	13.2076	0.0000	56,167.3047	56,167.3047	1.1709	3.4323	57,219.4070
2034	53.8205	65.3911	135.9856	0.5181	46.6828	0.6811	47.3640	12.5357	0.6623	13.1980	0.0000	55,601.2011	55,601.2011	1.1385	3.3893	56,639.6627
2035	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2036	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2037	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2038	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2039	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2040	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
2041	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
2042	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
2043	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
2044	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
Maximum	54.8954	103.5126	140.5947	0.5320	46.6834	3.8781	47.3856	12.5360	3.8779	13.2179	0.0000	56,803.1837	56,803.1837	2.2554	3.4805	57,870.5302

2.1 Overall Construction (Maximum Daily Emission)**Mitigated Construction**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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
Year	lb/day										lb/day					
2030	2.4798	13.6835	16.6236	0.0476	19.7939	0.4371	20.2311	10.1388	0.4371	10.5759	0.0000	4,519.5356	4,519.5356	0.2195	2.1700e-003	4,525.6688
2031	25.4874	103.5126	125.5010	0.5025	40.0352	3.8781	40.6873	10.7725	3.8779	11.4052	0.0000	56,195.0575	56,195.0575	2.2554	3.4343	56,254.5761
2032	54.8954	66.5277	140.5947	0.5320	46.6834	0.7022	47.3856	12.5360	0.6819	13.2179	0.0000	56,803.1837	56,803.1837	1.2062	3.4805	57,870.5302
2033	54.3387	65.9372	138.1516	0.5246	46.6831	0.6914	47.3745	12.5358	0.6718	13.2076	0.0000	56,167.3047	56,167.3047	1.1709	3.4323	57,219.4069
2034	53.8205	65.3911	135.9856	0.5181	46.6828	0.6811	47.3640	12.5357	0.6623	13.1980	0.0000	55,601.2011	55,601.2011	1.1385	3.3893	56,639.6627
2035	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2036	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2037	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2038	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2039	53.1357	63.1796	134.0565	0.5123	46.6826	0.5357	47.2183	12.5357	0.5175	13.0531	0.0000	55,108.7209	55,108.7209	1.0923	3.3519	56,134.8946
2040	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
2041	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
2042	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
2043	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
2044	51.2107	60.9782	127.9446	0.4929	46.6814	0.4693	47.1507	12.5352	0.4531	12.9883	0.0000	53,414.2310	53,414.2310	0.9888	3.2149	54,396.9817
Maximum	54.8954	103.5126	140.5947	0.5320	46.6834	3.8781	47.3856	12.5360	3.8779	13.2179	0.0000	56,803.1837	56,803.1837	2.2554	3.4805	57,870.5302

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

[illegible]

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563
Energy	5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.80 42	64,105.80 42	1.2287	1.1753	64,486.75 29
Mobile	207.7643	167.9146	1,664.684 8	3.3308	460.5517	1.5353	462.0870	122.6142	1.4355	124.0497		374,541.7 501	374,541.7 501	22.7581	16.6679	380,077.7 275
Total	515.7189	225.4874	2,203.528 9	3.6783	460.5517	8.4142	468.9659	122.6142	8.3144	130.9286	0.0000	439,563.6 405	439,563.6 405	24.8616	17.8431	445,502.4 367

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	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563
Energy	5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.80 42	64,105.80 42	1.2287	1.1753	64,486.75 29
Mobile	207.7643	167.9146	1,664.684 8	3.3308	460.5517	1.5353	462.0870	122.6142	1.4355	124.0497		374,541.7 501	374,541.7 501	22.7581	16.6679	380,077.7 275
Total	515.7189	225.4874	2,203.528 9	3.6783	460.5517	8.4142	468.9659	122.6142	8.3144	130.9286	0.0000	439,563.6 405	439,563.6 405	24.8616	17.8431	445,502.4 367

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	8/1/2030	1/15/2031	5	120	
2	Grading	Grading	1/16/2031	7/2/2031	5	120	
3	Paving	Paving	7/3/2031	12/17/2031	5	120	
4	Building Construction	Building Construction	12/18/2031	11/15/2044	5	3369	
5	Arch Coating	Architectural Coating	1/2/2032	11/30/2044	5	3369	

Acres of Grading (Site Preparation Phase): 180**Acres of Grading (Grading Phase): 360****Acres of Paving: 0****Residential Indoor: 17,809,875; Residential Outdoor: 5,936,625; Non-Residential Indoor: 4,292,984; Non-Residential Outdoor: 1,430,995; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Arch Coating	Air Compressors	2	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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	36	90.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	4,371.00	1,127.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating	2	874.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	2.4399	13.6680	16.2918	0.0466	19.6570	0.4367	20.0937	10.1025	0.4367	10.5391		4,409.7537	4,409.7537	0.2176		4,415.1936

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	0.0399	0.0155	0.3318	1.0200e-003	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		109.7819	109.7819	1.8800e-003	2.1700e-003	110.4752
Total	0.0399	0.0155	0.3318	1.0200e-003	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		109.7819	109.7819	1.8800e-003	2.1700e-003	110.4752

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2030

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	19.6570	0.4367	20.0937	10.1025	0.4367	10.5391	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6

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	0.0399	0.0155	0.3318	1.0200e-003	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		109.7819	109.7819	1.8800e-003	2.1700e-003	110.4752
Total	0.0399	0.0155	0.3318	1.0200e-003	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		109.7819	109.7819	1.8800e-003	2.1700e-003	110.4752

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2031****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	19.6570	0.4367	20.0937	10.1025	0.4367	10.5391		4,409.753 7	4,409.753 7	0.2176		4,415.193 6

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	0.0376	0.0146	0.3205	9.9000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		108.1020	108.1020	1.7500e-003	2.1000e-003	108.7727
Total	0.0376	0.0146	0.3205	9.9000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		108.1020	108.1020	1.7500e-003	2.1000e-003	108.7727

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2031

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	19.6570	0.4367	20.0937	10.1025	0.4367	10.5391	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6

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	0.0376	0.0146	0.3205	9.9000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		108.1020	108.1020	1.7500e-003	2.1000e-003	108.7727
Total	0.0376	0.0146	0.3205	9.9000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		108.1020	108.1020	1.7500e-003	2.1000e-003	108.7727

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.3 Grading - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	25.2995	103.4398	123.8986	0.4975		3.8759	3.8759		3.8759	3.8759		55,654.5474	55,654.5474	2.2466		55,710.7126
Total	25.2995	103.4398	123.8986	0.4975	9.2036	3.8759	13.0795	3.6538	3.8759	7.5296		55,654.5474	55,654.5474	2.2466		55,710.7126

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	0.1879	0.0729	1.6024	4.9700e-003	0.6846	2.2300e-003	0.6869	0.1816	2.0600e-003	0.1837		540.5101	540.5101	8.7600e-003	0.0105	543.8635
Total	0.1879	0.0729	1.6024	4.9700e-003	0.6846	2.2300e-003	0.6869	0.1816	2.0600e-003	0.1837		540.5101	540.5101	8.7600e-003	0.0105	543.8635

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2031****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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	25.2995	103.4398	123.8986	0.4975		3.8759	3.8759		3.8759	3.8759	0.0000	55,654.54 74	55,654.54 74	2.2466		55,710.71 26
Total	25.2995	103.4398	123.8986	0.4975	9.2036	3.8759	13.0795	3.6538	3.8759	7.5296	0.0000	55,654.54 74	55,654.54 74	2.2466		55,710.71 26

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	0.1879	0.0729	1.6024	4.9700e-003	0.6846	2.2300e-003	0.6869	0.1816	2.0600e-003	0.1837		540.5101	540.5101	8.7600e-003	0.0105	543.8635
Total	0.1879	0.0729	1.6024	4.9700e-003	0.6846	2.2300e-003	0.6869	0.1816	2.0600e-003	0.1837		540.5101	540.5101	8.7600e-003	0.0105	543.8635

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Paving - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
Total	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Paving - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439
Total	0.0313	0.0121	0.2671	8.3000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		90.0850	90.0850	1.4600e-003	1.7500e-003	90.6439

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2031****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.093 5	5,795.093 5	0.2325		5,800.905 7
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.093 5	5,795.093 5	0.2325		5,800.905 7

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	1.1674	45.4110	14.1846	0.1830	6.7851	0.2473	7.0324	1.9526	0.2365	2.1891		19,669.01 94	19,669.01 94	0.4814	2.9234	20,552.22 90
Worker	9.1249	3.5381	77.8242	0.2412	33.2502	0.1085	33.3587	8.8199	0.0999	8.9198		26,250.77 40	26,250.77 40	0.4254	0.5108	26,413.63 83
Total	10.2924	48.9491	92.0088	0.4243	40.0352	0.3558	40.3910	10.7725	0.3364	11.1089		45,919.79 34	45,919.79 34	0.9067	3.4343	46,965.86 73

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2031****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.1674	45.4110	14.1846	0.1830	6.7851	0.2473	7.0324	1.9526	0.2365	2.1891		19,669.0194	19,669.0194	0.4814	2.9234	20,552.2290
Worker	9.1249	3.5381	77.8242	0.2412	33.2502	0.1085	33.3587	8.8199	0.0999	8.9198		26,250.7740	26,250.7740	0.4254	0.5108	26,413.6383
Total	10.2924	48.9491	92.0088	0.4243	40.0352	0.3558	40.3910	10.7725	0.3364	11.1089		45,919.7934	45,919.7934	0.9067	3.4343	46,965.8673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2032****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.1447	44.9193	14.1231	0.1803	6.7848	0.2433	7.0280	1.9525	0.2327	2.1852		19,374.1206	19,374.1206	0.4745	2.8830	20,245.1086
Worker	8.6054	3.3556	75.4713	0.2366	33.2502	0.1017	33.3519	8.8199	0.0936	8.9135		25,893.5486	25,893.5486	0.3971	0.4980	26,051.8685
Total	9.7501	48.2749	89.5944	0.4168	40.0349	0.3450	40.3799	10.7724	0.3263	11.0987		45,267.6692	45,267.6692	0.8715	3.3809	46,296.9772

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2032****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.1447	44.9193	14.1231	0.1803	6.7848	0.2433	7.0280	1.9525	0.2327	2.1852		19,374.1206	19,374.1206	0.4745	2.8830	20,245.1086
Worker	8.6054	3.3556	75.4713	0.2366	33.2502	0.1017	33.3519	8.8199	0.0936	8.9135		25,893.5486	25,893.5486	0.3971	0.4980	26,051.8685
Total	9.7501	48.2749	89.5944	0.4168	40.0349	0.3450	40.3799	10.7724	0.3263	11.0987		45,267.6692	45,267.6692	0.8715	3.3809	46,296.9772

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2033****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.093 5	5,795.093 5	0.2325		5,800.905 7
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.093 5	5,795.093 5	0.2325		5,800.905 7

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	1.1256	44.5043	14.0826	0.1778	6.7845	0.2399	7.0243	1.9523	0.2295	2.1818		19,113.28 93	19,113.28 93	0.4686	2.8473	19,973.48 45
Worker	8.1573	3.2093	73.4691	0.2324	33.2502	0.0955	33.3457	8.8199	0.0879	8.9078		25,580.99 69	25,580.99 69	0.3725	0.4876	25,735.60 72
Total	9.2830	47.7137	87.5517	0.4103	40.0346	0.3354	40.3700	10.7723	0.3173	11.0896		44,694.28 62	44,694.28 62	0.8411	3.3348	45,709.09 17

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.093 5	5,795.093 5	0.2325		5,800.905 7
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.093 5	5,795.093 5	0.2325		5,800.905 7

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	1.1256	44.5043	14.0826	0.1778	6.7845	0.2399	7.0243	1.9523	0.2295	2.1818		19,113.28 93	19,113.28 93	0.4686	2.8473	19,973.48 45
Worker	8.1573	3.2093	73.4691	0.2324	33.2502	0.0955	33.3457	8.8199	0.0879	8.9078		25,580.99 69	25,580.99 69	0.3725	0.4876	25,735.60 72
Total	9.2830	47.7137	87.5517	0.4103	40.0346	0.3354	40.3700	10.7723	0.3173	11.0896		44,694.28 62	44,694.28 62	0.8411	3.3348	45,709.09 17

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2034****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.093 5	5,795.093 5	0.2325		5,800.905 7
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.093 5	5,795.093 5	0.2325		5,800.905 7

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	1.1082	44.1041	14.0508	0.1756	6.7842	0.2365	7.0206	1.9522	0.2262	2.1784		18,874.61 99	18,874.61 99	0.4627	2.8145	19,724.89 58
Worker	7.7400	3.0878	71.6905	0.2288	33.2502	0.0898	33.3400	8.8199	0.0827	8.9026		25,308.12 47	25,308.12 47	0.3504	0.4790	25,459.63 37
Total	8.8483	47.1919	85.7413	0.4045	40.0343	0.3263	40.3606	10.7722	0.3089	11.0810		44,182.74 46	44,182.74 46	0.8131	3.2935	45,184.52 95

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2034****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.1082	44.1041	14.0508	0.1756	6.7842	0.2365	7.0206	1.9522	0.2262	2.1784		18,874.6199	18,874.6199	0.4627	2.8145	19,724.8958
Worker	7.7400	3.0878	71.6905	0.2288	33.2502	0.0898	33.3400	8.8199	0.0827	8.9026		25,308.1247	25,308.1247	0.3504	0.4790	25,459.6337
Total	8.8483	47.1919	85.7413	0.4045	40.0343	0.3263	40.3606	10.7722	0.3089	11.0810		44,182.7446	44,182.7446	0.8131	3.2935	45,184.5295

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2035****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2035

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2036****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2036

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2037****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 Building Construction - 2039

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0925	43.7516	14.0254	0.1737	6.7839	0.2335	7.0174	1.9522	0.2233	2.1755		18,662.3598	18,662.3598	0.4584	2.7852	19,503.8143
Worker	7.3577	2.9917	70.1752	0.2257	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		25,074.5990	25,074.5990	0.3311	0.4723	25,223.6073
Total	8.4502	46.7433	84.2006	0.3994	40.0341	0.3182	40.3522	10.7721	0.3013	11.0733		43,736.9588	43,736.9588	0.7895	3.2575	44,727.4216

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2040****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2040****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2041****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2041****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2042****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2042****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2043****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2043****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2044****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2044****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	1.0465	42.4933	13.9738	0.1663	6.7827	0.2268	7.0095	1.9517	0.2169	2.1686		17,871.29 05	17,871.29 05	0.4439	2.6709	18,678.32 66
Worker	5.8298	2.7087	65.1269	0.2156	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		24,321.71 91	24,321.71 91	0.2640	0.4533	24,463.40 20
Total	6.8764	45.2020	79.1007	0.3819	40.0329	0.2936	40.3265	10.7716	0.2784	11.0501		42,193.00 97	42,193.00 97	0.7079	3.1242	43,141.72 86

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2032****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.7207	0.6710	15.0908	0.0473	6.6485	0.0203	6.6689	1.7636	0.0187	1.7823		5,177.5249	5,177.5249	0.0794	0.0996	5,209.1817
Total	1.7207	0.6710	15.0908	0.0473	6.6485	0.0203	6.6689	1.7636	0.0187	1.7823		5,177.5249	5,177.5249	0.0794	0.0996	5,209.1817

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Arch Coating - 2032

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.7207	0.6710	15.0908	0.0473	6.6485	0.0203	6.6689	1.7636	0.0187	1.7823		5,177.5249	5,177.5249	0.0794	0.0996	5,209.1817
Total	1.7207	0.6710	15.0908	0.0473	6.6485	0.0203	6.6689	1.7636	0.0187	1.7823		5,177.5249	5,177.5249	0.0794	0.0996	5,209.1817

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2033****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.6311	0.6417	14.6905	0.0465	6.6485	0.0191	6.6676	1.7636	0.0176	1.7812		5,115.0289	5,115.0289	0.0745	0.0975	5,145.9439
Total	1.6311	0.6417	14.6905	0.0465	6.6485	0.0191	6.6676	1.7636	0.0176	1.7812		5,115.0289	5,115.0289	0.0745	0.0975	5,145.9439

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Arch Coating - 2033

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.6311	0.6417	14.6905	0.0465	6.6485	0.0191	6.6676	1.7636	0.0176	1.7812		5,115.0289	5,115.0289	0.0745	0.0975	5,145.9439
Total	1.6311	0.6417	14.6905	0.0465	6.6485	0.0191	6.6676	1.7636	0.0176	1.7812		5,115.0289	5,115.0289	0.0745	0.0975	5,145.9439

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Arch Coating - 2034

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.5477	0.6174	14.3348	0.0458	6.6485	0.0180	6.6665	1.7636	0.0165	1.7801		5,060.4669	5,060.4669	0.0701	0.0958	5,090.7618
Total	1.5477	0.6174	14.3348	0.0458	6.6485	0.0180	6.6665	1.7636	0.0165	1.7801		5,060.4669	5,060.4669	0.0701	0.0958	5,090.7618

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Arch Coating - 2034

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.5477	0.6174	14.3348	0.0458	6.6485	0.0180	6.6665	1.7636	0.0165	1.7801		5,060.4669	5,060.4669	0.0701	0.0958	5,090.7618
Total	1.5477	0.6174	14.3348	0.0458	6.6485	0.0180	6.6665	1.7636	0.0165	1.7801		5,060.4669	5,060.4669	0.0701	0.0958	5,090.7618

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2035****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Arch Coating - 2035

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2036****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Arch Coating - 2036

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2037****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2037****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2038****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2038****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2039****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2039****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673
Total	1.4712	0.5982	14.0318	0.0451	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		5,013.7725	5,013.7725	0.0662	0.0944	5,043.5673

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2040****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2040****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2041****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Arch Coating - 2041

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2042****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2042****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2043****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2043****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2044****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

3.6 Arch Coating - 2044

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611
Total	1.1657	0.5416	13.0224	0.0431	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,863.2310	4,863.2310	0.0528	0.0906	4,891.5611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	207.7643	167.9146	1,664.6848	3.3308	460.5517	1.5353	462.0870	122.6142	1.4355	124.0497		374,541.7501	374,541.7501	22.7581	16.6679	380,077.7275
Unmitigated	207.7643	167.9146	1,664.6848	3.3308	460.5517	1.5353	462.0870	122.6142	1.4355	124.0497		374,541.7501	374,541.7501	22.7581	16.6679	380,077.7275

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	15,531.20	14,018.05	11676.95	37,887,133	37,887,133
Arena	771.12	771.12	771.12	1,084,591	1,084,591
Fast Food Restaurant with Drive Thru	11,302.80	14,786.88	11341.92	8,155,601	8,155,601
General Office Building	3,126.54	709.41	224.70	4,887,455	4,887,455
Government Office Building	1,671.66	0.00	0.00	1,716,849	1,716,849
Health Club	2,140.45	1,356.55	1737.45	2,722,032	2,722,032
High School	3,045.00	870.00	375.00	6,128,331	6,128,331
High Turnover (Sit Down Restaurant)	11,666.72	12,729.60	14834.56	10,904,068	10,904,068
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Junior College (2yr)	2,875.00	1,050.00	100.00	4,083,979	4,083,979
Junior High School	4,579.50	0.00	0.00	7,200,145	7,200,145
Medical Office Building	1,447.68	356.51	59.07	1,821,430	1,821,430
Regional Shopping Center	9,248.75	11,299.40	5169.50	12,518,386	12,518,386

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	31,152.00	31,482.00	28215.00	78,983,735	78,983,735
Supermarket	6,940.70	11,545.30	10820.55	7,015,866	7,015,866
Total	112,354.32	107,690.62	90,204.82	195,190,100	195,190,100

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.8042	64,105.8042	1.2287	1.1753	64,486.7529
NaturalGas Unmitigated	5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.8042	64,105.8042	1.2287	1.1753	64,486.7529

5.2 Energy by Land Use - NaturalGas

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

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					
Apartments Mid Rise	73653	0.7943	6.7876	2.8884	0.0433		0.5488	0.5488		0.5488	0.5488		8,665.0561	8,665.0561	0.1661	0.1589	8,716.5482
Arena	7016.55	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11645.6	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	11415.3	0.1231	1.1192	0.9401	6.7100e-003		0.0851	0.0851		0.0851	0.0851		1,342.9750	1,342.9750	0.0257	0.0246	1,350.9557
Government Office Building	2631.56	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6334.38	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8243.15	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50464.2	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62370	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	10470.4	0.1129	1.0265	0.8623	6.1600e-003		0.0780	0.0780		0.0780	0.0780		1,231.8115	1,231.8115	0.0236	0.0226	1,239.1316
Medical Office Building	1479.36	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3604.52	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	213902	2.3068	19.7125	8.3883	0.1258		1.5938	1.5938		1.5938	1.5938		25,164.8906	25,164.8906	0.4823	0.4614	25,314.4329
Supermarket	4494.79	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.8042	64,105.8042	1.2287	1.1753	64,486.7529

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Summer

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

	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					
Apartments Mid Rise	73.653	0.7943	6.7876	2.8884	0.0433		0.5488	0.5488		0.5488	0.5488		8,665.0561	8,665.0561	0.1661	0.1589	8,716.5482
Arena	7.01655	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11.6456	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	11.4153	0.1231	1.1192	0.9401	6.7100e-003		0.0851	0.0851		0.0851	0.0851		1,342.9750	1,342.9750	0.0257	0.0246	1,350.9557
Government Office Building	2.63156	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6.33438	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8.24315	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50.4642	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62.37	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14.805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	10.4704	0.1129	1.0265	0.8623	6.1600e-003		0.0780	0.0780		0.0780	0.0780		1,231.8115	1,231.8115	0.0236	0.0226	1,239.1316
Medical Office Building	1.47936	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3.60452	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	213.902	2.3068	19.7125	8.3883	0.1258		1.5938	1.5938		1.5938	1.5938		25,164.8906	25,164.8906	0.4823	0.4614	25,314.4329
Supermarket	4.49479	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.8042	64,105.8042	1.2287	1.1753	64,486.7529

6.0 Area Detail

6.1 Mitigation Measures Area

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563
Unmitigated	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563

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	37.4235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	249.4596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	15.1951	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189		916.0862	916.0862	0.8748		937.9563
Total	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	37.4235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	249.4596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	15.1951	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189		916.0862	916.0862	0.8748		937.9563
Total	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

UWSP - Construction of Non-Phase I
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	321.00	1000sqft	7.37	321,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	2,150.00	Student	5.80	252,757.62	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	2,855.00	Dwelling Unit	75.13	2,855,000.00	7623
Single Family Housing	3,300.00	Dwelling Unit	1,071.43	5,940,000.00	8811
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

(lb/MWahr)

(lb/MWahr)

(lb/MWahr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - Land uses adjusted to remove Phase I.

Construction Phase - Construction phasing adjusted to reflect 20-year buildout.

Off-road Equipment - Fleet mix adjusted based on size/timing of project.

Off-road Equipment - Fleet mix adjusted based on size/timing of project.

Off-road Equipment - Fleet mix adjusted based on size/timing of grading phase.

Off-road Equipment -

Grading -

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	11,000.00	3,369.00
tblConstructionPhase	NumDays	155,000.00	3,369.00
tblConstructionPhase	NumDays	15,500.00	120.00
tblConstructionPhase	NumDays	11,000.00	120.00
tblConstructionPhase	NumDays	6,000.00	120.00
tblGrading	AcresOfGrading	3,660.00	360.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	29.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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
Year	lb/day										lb/day					
2030	2.4756	13.6869	16.5859	0.0475	19.7939	0.4371	20.2311	10.1388	0.4371	10.5759	0.0000	4,507.5250	4,507.5250	0.2198	2.4800e-003	4,513.7595
2031	25.4679	103.5288	125.3197	0.5019	40.0352	3.8781	40.6887	10.7725	3.8779	11.4065	0.0000	56,135.9178	56,135.9178	2.2570	3.5146	56,195.9255
2032	53.7833	70.8976	130.9742	0.5012	46.6834	0.7035	47.3869	12.5360	0.6832	13.2191	0.0000	53,432.9782	53,432.9782	1.2926	3.5731	54,530.0779
2033	53.2997	70.2464	128.8127	0.4944	46.6831	0.6926	47.3757	12.5358	0.6730	13.2088	0.0000	52,837.9016	52,837.9016	1.2525	3.5231	53,919.0850
2034	52.8628	69.6470	126.8916	0.4883	46.6828	0.6823	47.3651	12.5357	0.6633	13.1991	0.0000	52,307.3180	52,307.3180	1.2158	3.4785	53,374.3021
2035	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2036	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2037	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2038	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2039	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2040	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
2041	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
2042	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
2043	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
2044	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
Maximum	53.7833	103.5288	130.9742	0.5019	46.6834	3.8781	47.3869	12.5360	3.8779	13.2191	0.0000	56,135.9178	56,135.9178	2.2570	3.5731	56,195.9255

2.1 Overall Construction (Maximum Daily Emission)**Mitigated Construction**

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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
Year	lb/day										lb/day					
2030	2.4756	13.6869	16.5859	0.0475	19.7939	0.4371	20.2311	10.1388	0.4371	10.5759	0.0000	4,507.5250	4,507.5250	0.2198	2.4800e-003	4,513.7595
2031	25.4679	103.5288	125.3197	0.5019	40.0352	3.8781	40.6887	10.7725	3.8779	11.4065	0.0000	56,135.9178	56,135.9178	2.2570	3.5146	56,195.9255
2032	53.7833	70.8976	130.9742	0.5012	46.6834	0.7035	47.3869	12.5360	0.6832	13.2191	0.0000	53,432.9781	53,432.9781	1.2926	3.5731	54,530.0779
2033	53.2997	70.2464	128.8127	0.4944	46.6831	0.6926	47.3757	12.5358	0.6730	13.2088	0.0000	52,837.9016	52,837.9016	1.2525	3.5231	53,919.0849
2034	52.8628	69.6470	126.8916	0.4883	46.6828	0.6823	47.3651	12.5357	0.6633	13.1991	0.0000	52,307.3180	52,307.3180	1.2158	3.4785	53,374.3021
2035	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2036	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2037	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2038	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2039	52.2547	67.3919	125.1600	0.4830	46.6826	0.5368	47.2194	12.5357	0.5185	13.0541	0.0000	51,845.1266	51,845.1266	1.1657	3.4399	52,899.3738
2040	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
2041	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
2042	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
2043	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
2044	50.6823	65.0521	119.6432	0.4648	46.6814	0.4701	47.1516	12.5352	0.4539	12.9891	0.0000	50,247.7228	50,247.7228	1.0475	3.2997	51,257.2310
Maximum	53.7833	103.5288	130.9742	0.5019	46.6834	3.8781	47.3869	12.5360	3.8779	13.2191	0.0000	56,135.9178	56,135.9178	2.2570	3.5731	56,195.9255

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

[illegible]

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563
Energy	5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.80 42	64,105.80 42	1.2287	1.1753	64,486.75 29
Mobile	151.8293	194.7474	1,721.797 1	3.0440	460.5517	1.5369	462.0886	122.6142	1.4371	124.0513		341,973.5 506	341,973.5 506	25.1980	18.2264	348,034.9 667
Total	459.7839	252.3202	2,260.641 1	3.3914	460.5517	8.4158	468.9675	122.6142	8.3160	130.9302	0.0000	406,995.4 410	406,995.4 410	27.3014	19.4017	413,459.6 759

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	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563
Energy	5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.80 42	64,105.80 42	1.2287	1.1753	64,486.75 29
Mobile	151.8293	194.7474	1,721.797 1	3.0440	460.5517	1.5369	462.0886	122.6142	1.4371	124.0513		341,973.5 506	341,973.5 506	25.1980	18.2264	348,034.9 667
Total	459.7839	252.3202	2,260.641 1	3.3914	460.5517	8.4158	468.9675	122.6142	8.3160	130.9302	0.0000	406,995.4 410	406,995.4 410	27.3014	19.4017	413,459.6 759

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	8/1/2030	1/15/2031	5	120	
2	Grading	Grading	1/16/2031	7/2/2031	5	120	
3	Paving	Paving	7/3/2031	12/17/2031	5	120	
4	Building Construction	Building Construction	12/18/2031	11/15/2044	5	3369	
5	Arch Coating	Architectural Coating	1/2/2032	11/30/2044	5	3369	

Acres of Grading (Site Preparation Phase): 180**Acres of Grading (Grading Phase): 360****Acres of Paving: 0****Residential Indoor: 17,809,875; Residential Outdoor: 5,936,625; Non-Residential Indoor: 4,292,984; Non-Residential Outdoor: 1,430,995; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	29	8.00	367	0.48

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Arch Coating	Air Compressors	2	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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	36	90.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	4,371.00	1,127.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating	2	874.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.2 Site Preparation - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	19.6570	0.4367	20.0937	10.1025	0.4367	10.5391		4,409.753 7	4,409.753 7	0.2176		4,415.193 6

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	0.0357	0.0189	0.2940	9.0000e-004	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		97.7713	97.7713	2.2300e-003	2.4800e-003	98.5659
Total	0.0357	0.0189	0.2940	9.0000e-004	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		97.7713	97.7713	2.2300e-003	2.4800e-003	98.5659

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2030****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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	19.6570	0.4367	20.0937	10.1025	0.4367	10.5391	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6

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	0.0357	0.0189	0.2940	9.0000e-004	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		97.7713	97.7713	2.2300e-003	2.4800e-003	98.5659
Total	0.0357	0.0189	0.2940	9.0000e-004	0.1369	4.8000e-004	0.1374	0.0363	4.4000e-004	0.0368		97.7713	97.7713	2.2300e-003	2.4800e-003	98.5659

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2031****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	19.6570	0.4367	20.0937	10.1025	0.4367	10.5391		4,409.753 7	4,409.753 7	0.2176		4,415.193 6

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	0.0337	0.0178	0.2842	8.8000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		96.2741	96.2741	2.0800e-003	2.4000e-003	97.0426
Total	0.0337	0.0178	0.2842	8.8000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		96.2741	96.2741	2.0800e-003	2.4000e-003	97.0426

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2031****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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6
Total	2.4399	13.6680	16.2918	0.0466	19.6570	0.4367	20.0937	10.1025	0.4367	10.5391	0.0000	4,409.753 7	4,409.753 7	0.2176		4,415.193 6

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	0.0337	0.0178	0.2842	8.8000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		96.2741	96.2741	2.0800e-003	2.4000e-003	97.0426
Total	0.0337	0.0178	0.2842	8.8000e-004	0.1369	4.5000e-004	0.1374	0.0363	4.1000e-004	0.0367		96.2741	96.2741	2.0800e-003	2.4000e-003	97.0426

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2031****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	25.2995	103.4398	123.8986	0.4975		3.8759	3.8759		3.8759	3.8759		55,654.54 74	55,654.54 74	2.2466		55,710.71 26
Total	25.2995	103.4398	123.8986	0.4975	9.2036	3.8759	13.0795	3.6538	3.8759	7.5296		55,654.54 74	55,654.54 74	2.2466		55,710.71 26

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	0.1683	0.0890	1.4212	4.4200e-003	0.6846	2.2300e-003	0.6869	0.1816	2.0600e-003	0.1837		481.3704	481.3704	0.0104	0.0120	485.2129
Total	0.1683	0.0890	1.4212	4.4200e-003	0.6846	2.2300e-003	0.6869	0.1816	2.0600e-003	0.1837		481.3704	481.3704	0.0104	0.0120	485.2129

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.3 Grading - 2031

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	25.2995	103.4398	123.8986	0.4975		3.8759	3.8759		3.8759	3.8759	0.0000	55,654.54 74	55,654.54 74	2.2466		55,710.71 26
Total	25.2995	103.4398	123.8986	0.4975	9.2036	3.8759	13.0795	3.6538	3.8759	7.5296	0.0000	55,654.54 74	55,654.54 74	2.2466		55,710.71 26

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	0.1683	0.0890	1.4212	4.4200e-003	0.6846	2.2300e-003	0.6869	0.1816	2.0600e-003	0.1837		481.3704	481.3704	0.0104	0.0120	485.2129
Total	0.1683	0.0890	1.4212	4.4200e-003	0.6846	2.2300e-003	0.6869	0.1816	2.0600e-003	0.1837		481.3704	481.3704	0.0104	0.0120	485.2129

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2031****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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
Total	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.4 Paving - 2031

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	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302

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	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688
Total	0.0281	0.0148	0.2369	7.4000e-004	0.1141	3.7000e-004	0.1145	0.0303	3.4000e-004	0.0306		80.2284	80.2284	1.7300e-003	2.0000e-003	80.8688

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2031****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.093 5	5,795.093 5	0.2325		5,800.905 7
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.093 5	5,795.093 5	0.2325		5,800.905 7

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	1.1098	48.9147	14.7798	0.1833	6.7851	0.2487	7.0338	1.9526	0.2379	2.1905		19,698.34 13	19,698.34 13	0.4784	2.9306	20,583.62 73
Worker	8.1751	4.3231	69.0203	0.2149	33.2502	0.1085	33.3587	8.8199	0.0999	8.9198		23,378.55 41	23,378.55 41	0.5042	0.5839	23,565.17 41
Total	9.2849	53.2377	83.8001	0.3981	40.0352	0.3572	40.3924	10.7725	0.3378	11.1102		43,076.89 54	43,076.89 54	0.9826	3.5146	44,148.80 14

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.1098	48.9147	14.7798	0.1833	6.7851	0.2487	7.0338	1.9526	0.2379	2.1905		19,698.3413	19,698.3413	0.4784	2.9306	20,583.6273
Worker	8.1751	4.3231	69.0203	0.2149	33.2502	0.1085	33.3587	8.8199	0.0999	8.9198		23,378.5541	23,378.5541	0.5042	0.5839	23,565.1741
Total	9.2849	53.2377	83.8001	0.3981	40.0352	0.3572	40.3924	10.7725	0.3378	11.1102		43,076.8954	43,076.8954	0.9826	3.5146	44,148.8014

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2032****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.0859	48.3982	14.7062	0.1806	6.7848	0.2446	7.0293	1.9525	0.2340	2.1864		19,404.3856	19,404.3856	0.4715	2.8902	20,277.4572
Worker	7.7276	4.0982	66.9681	0.2107	33.2502	0.1017	33.3519	8.8199	0.0936	8.9135		23,059.7151	23,059.7151	0.4715	0.5691	23,241.0940
Total	8.8135	52.4964	81.6742	0.3912	40.0349	0.3463	40.3812	10.7724	0.3275	11.0999		42,464.1007	42,464.1007	0.9430	3.4593	43,518.5512

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2032

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.0859	48.3982	14.7062	0.1806	6.7848	0.2446	7.0293	1.9525	0.2340	2.1864		19,404.3856	19,404.3856	0.4715	2.8902	20,277.4572
Worker	7.7276	4.0982	66.9681	0.2107	33.2502	0.1017	33.3519	8.8199	0.0936	8.9135		23,059.7151	23,059.7151	0.4715	0.5691	23,241.0940
Total	8.8135	52.4964	81.6742	0.3912	40.0349	0.3463	40.3812	10.7724	0.3275	11.0999		42,464.1007	42,464.1007	0.9430	3.4593	43,518.5512

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2033****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.0658	47.9631	14.6554	0.1781	6.7845	0.2411	7.0255	1.9523	0.2306	2.1830		19,144.3996	19,144.3996	0.4656	2.8545	20,006.6877
Worker	7.3414	3.9180	65.2090	0.2070	33.2502	0.0955	33.3457	8.8199	0.0879	8.9078		22,780.4622	22,780.4622	0.4431	0.5571	22,957.5637
Total	8.4072	51.8811	79.8644	0.3851	40.0346	0.3366	40.3712	10.7723	0.3185	11.0908		41,924.8619	41,924.8619	0.9087	3.4117	42,964.2513

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.0658	47.9631	14.6554	0.1781	6.7845	0.2411	7.0255	1.9523	0.2306	2.1830		19,144.3996	19,144.3996	0.4656	2.8545	20,006.6877
Worker	7.3414	3.9180	65.2090	0.2070	33.2502	0.0955	33.3457	8.8199	0.0879	8.9078		22,780.4622	22,780.4622	0.4431	0.5571	22,957.5637
Total	8.4072	51.8811	79.8644	0.3851	40.0346	0.3366	40.3712	10.7723	0.3185	11.0908		41,924.8619	41,924.8619	0.9087	3.4117	42,964.2513

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963		5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.0473	47.5432	14.6141	0.1759	6.7842	0.2376	7.0218	1.9522	0.2273	2.1795		18,906.5365	18,906.5365	0.4597	2.8218	19,758.9175
Worker	6.9927	3.7685	63.6425	0.2038	33.2502	0.0898	33.3400	8.8199	0.0827	8.9026		22,536.5192	22,536.5192	0.4174	0.5473	22,710.0437
Total	8.0399	51.3117	78.2566	0.3797	40.0343	0.3274	40.3617	10.7722	0.3099	11.0821		41,443.0558	41,443.0558	0.8771	3.3691	42,468.9611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2034

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057
Total	2.6183	15.8692	32.3140	0.0619		0.2963	0.2963		0.2963	0.2963	0.0000	5,795.0935	5,795.0935	0.2325		5,800.9057

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	1.0473	47.5432	14.6141	0.1759	6.7842	0.2376	7.0218	1.9522	0.2273	2.1795		18,906.5365	18,906.5365	0.4597	2.8218	19,758.9175
Worker	6.9927	3.7685	63.6425	0.2038	33.2502	0.0898	33.3400	8.8199	0.0827	8.9026		22,536.5192	22,536.5192	0.4174	0.5473	22,710.0437
Total	8.0399	51.3117	78.2566	0.3797	40.0343	0.3274	40.3617	10.7722	0.3099	11.0821		41,443.0558	41,443.0558	0.8771	3.3691	42,468.9611

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2035

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2036

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808		5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2039****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895
Total	2.4336	14.3226	32.2356	0.0619		0.1808	0.1808		0.1808	0.1808	0.0000	5,795.0935	5,795.0935	0.2158		5,800.4895

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	1.0304	47.1736	14.5802	0.1740	6.7839	0.2345	7.0184	1.9522	0.2243	2.1765		18,694.9816	18,694.9816	0.4553	2.7926	19,538.5535
Worker	6.6753	3.6504	62.2987	0.2010	33.2502	0.0847	33.3349	8.8199	0.0780	8.8979		22,327.6475	22,327.6475	0.3948	0.5395	22,498.2867
Total	7.7058	50.8239	76.8790	0.3749	40.0341	0.3192	40.3533	10.7721	0.3023	11.0743		41,022.6291	41,022.6291	0.8501	3.3321	42,036.8403

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2040****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2040****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2041

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2041****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2042

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2042

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2043****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2043****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.5 Building Construction - 2044

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475		5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2044****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7
Total	2.3940	13.7806	32.2369	0.0619		0.1475	0.1475		0.1475	0.1475	0.0000	5,795.094 2	5,795.094 2	0.2083		5,800.300 7

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	0.9808	45.8545	14.5031	0.1667	6.7827	0.2276	7.0103	1.9517	0.2177	2.1694		17,906.13 23	17,906.13 23	0.4406	2.6785	18,715.34 23
Worker	5.4443	3.3026	57.7677	0.1920	33.2502	0.0669	33.3170	8.8199	0.0615	8.8814		21,653.82 58	21,653.82 58	0.3157	0.5177	21,815.99 57
Total	6.4251	49.1571	72.2708	0.3586	40.0329	0.2945	40.3274	10.7716	0.2792	11.0509		39,559.95 81	39,559.95 81	0.7563	3.1962	40,531.33 80

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2032****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.5452	0.8194	13.3906	0.0421	6.6485	0.0203	6.6689	1.7636	0.0187	1.7823		4,610.8879	4,610.8879	0.0943	0.1138	4,647.1554
Total	1.5452	0.8194	13.3906	0.0421	6.6485	0.0203	6.6689	1.7636	0.0187	1.7823		4,610.8879	4,610.8879	0.0943	0.1138	4,647.1554

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Arch Coating - 2032

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.5452	0.8194	13.3906	0.0421	6.6485	0.0203	6.6689	1.7636	0.0187	1.7823		4,610.8879	4,610.8879	0.0943	0.1138	4,647.1554
Total	1.5452	0.8194	13.3906	0.0421	6.6485	0.0203	6.6689	1.7636	0.0187	1.7823		4,610.8879	4,610.8879	0.0943	0.1138	4,647.1554

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2033****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.4680	0.7834	13.0388	0.0414	6.6485	0.0191	6.6676	1.7636	0.0176	1.7812		4,555.0501	4,555.0501	0.0886	0.1114	4,590.4623
Total	1.4680	0.7834	13.0388	0.0414	6.6485	0.0191	6.6676	1.7636	0.0176	1.7812		4,555.0501	4,555.0501	0.0886	0.1114	4,590.4623

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Arch Coating - 2033

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.4680	0.7834	13.0388	0.0414	6.6485	0.0191	6.6676	1.7636	0.0176	1.7812		4,555.0501	4,555.0501	0.0886	0.1114	4,590.4623
Total	1.4680	0.7834	13.0388	0.0414	6.6485	0.0191	6.6676	1.7636	0.0176	1.7812		4,555.0501	4,555.0501	0.0886	0.1114	4,590.4623

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2034****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406		562.8961	562.8961	0.0228		563.4656

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	1.3982	0.7535	12.7256	0.0408	6.6485	0.0180	6.6665	1.7636	0.0165	1.7801		4,506.2727	4,506.2727	0.0835	0.1094	4,540.9696
Total	1.3982	0.7535	12.7256	0.0408	6.6485	0.0180	6.6665	1.7636	0.0165	1.7801		4,506.2727	4,506.2727	0.0835	0.1094	4,540.9696

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Arch Coating - 2034

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2615	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656
Total	40.8064	1.7126	3.5955	5.9400e-003		0.0406	0.0406		0.0406	0.0406	0.0000	562.8961	562.8961	0.0228		563.4656

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	1.3982	0.7535	12.7256	0.0408	6.6485	0.0180	6.6665	1.7636	0.0165	1.7801		4,506.2727	4,506.2727	0.0835	0.1094	4,540.9696
Total	1.3982	0.7535	12.7256	0.0408	6.6485	0.0180	6.6665	1.7636	0.0165	1.7801		4,506.2727	4,506.2727	0.0835	0.1094	4,540.9696

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2035****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2035****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Arch Coating - 2036

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Arch Coating - 2036

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2037****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2037****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2038****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2038****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2039****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198		562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

3.6 Arch Coating - 2039

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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2357	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161
Total	40.7806	1.5155	3.5886	5.9400e-003		0.0198	0.0198		0.0198	0.0198	0.0000	562.8961	562.8961	0.0208		563.4161

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	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279
Total	1.3348	0.7299	12.4569	0.0402	6.6485	0.0169	6.6655	1.7636	0.0156	1.7792		4,464.5079	4,464.5079	0.0790	0.1079	4,498.6279

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2040****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2040****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2041****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2041****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2042****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2042****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2043****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2043****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2044****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149		562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Arch Coating - 2044****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	40.5449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2298	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913
Total	40.7747	1.4540	3.5846	5.9400e-003		0.0149	0.0149		0.0149	0.0149	0.0000	562.8961	562.8961	0.0198		563.3913

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	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9
Total	1.0886	0.6604	11.5509	0.0384	6.6485	0.0134	6.6619	1.7636	0.0123	1.7759		4,329.774 4	4,329.774 4	0.0631	0.1035	4,362.200 9

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	151.8293	194.7474	1,721.797 1	3.0440	460.5517	1.5369	462.0886	122.6142	1.4371	124.0513		341,973.5 506	341,973.5 506	25.1980	18.2264	348,034.9 667
Unmitigated	151.8293	194.7474	1,721.797 1	3.0440	460.5517	1.5369	462.0886	122.6142	1.4371	124.0513		341,973.5 506	341,973.5 506	25.1980	18.2264	348,034.9 667

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	15,531.20	14,018.05	11676.95	37,887,133	37,887,133
Arena	771.12	771.12	771.12	1,084,591	1,084,591
Fast Food Restaurant with Drive Thru	11,302.80	14,786.88	11341.92	8,155,601	8,155,601
General Office Building	3,126.54	709.41	224.70	4,887,455	4,887,455
Government Office Building	1,671.66	0.00	0.00	1,716,849	1,716,849
Health Club	2,140.45	1,356.55	1737.45	2,722,032	2,722,032
High School	3,045.00	870.00	375.00	6,128,331	6,128,331
High Turnover (Sit Down Restaurant)	11,666.72	12,729.60	14834.56	10,904,068	10,904,068
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Junior College (2yr)	2,875.00	1,050.00	100.00	4,083,979	4,083,979
Junior High School	4,579.50	0.00	0.00	7,200,145	7,200,145
Medical Office Building	1,447.68	356.51	59.07	1,821,430	1,821,430
Regional Shopping Center	9,248.75	11,299.40	5169.50	12,518,386	12,518,386

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	31,152.00	31,482.00	28215.00	78,983,735	78,983,735
Supermarket	6,940.70	11,545.30	10820.55	7,015,866	7,015,866
Total	112,354.32	107,690.62	90,204.82	195,190,100	195,190,100

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.8042	64,105.8042	1.2287	1.1753	64,486.7529
NaturalGas Unmitigated	5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.8042	64,105.8042	1.2287	1.1753	64,486.7529

5.2 Energy by Land Use - NaturalGas

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

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					
Apartments Mid Rise	73653	0.7943	6.7876	2.8884	0.0433		0.5488	0.5488		0.5488	0.5488		8,665.0561	8,665.0561	0.1661	0.1589	8,716.5482
Arena	7016.55	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11645.6	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	11415.3	0.1231	1.1192	0.9401	6.7100e-003		0.0851	0.0851		0.0851	0.0851		1,342.9750	1,342.9750	0.0257	0.0246	1,350.9557
Government Office Building	2631.56	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6334.38	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8243.15	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50464.2	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62370	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	10470.4	0.1129	1.0265	0.8623	6.1600e-003		0.0780	0.0780		0.0780	0.0780		1,231.8115	1,231.8115	0.0236	0.0226	1,239.1316
Medical Office Building	1479.36	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3604.52	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	213902	2.3068	19.7125	8.3883	0.1258		1.5938	1.5938		1.5938	1.5938		25,164.8906	25,164.8906	0.4823	0.4614	25,314.4329
Supermarket	4494.79	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.8042	64,105.8042	1.2287	1.1753	64,486.7529

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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 - Natural Gas

Mitigated

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, Winter

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

	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					
Apartments Mid Rise	73.653	0.7943	6.7876	2.8884	0.0433		0.5488	0.5488		0.5488	0.5488		8,665.0561	8,665.0561	0.1661	0.1589	8,716.5482
Arena	7.01655	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11.6456	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	11.4153	0.1231	1.1192	0.9401	6.7100e-003		0.0851	0.0851		0.0851	0.0851		1,342.9750	1,342.9750	0.0257	0.0246	1,350.9557
Government Office Building	2.63156	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6.33438	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8.24315	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50.4642	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62.37	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14.805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	10.4704	0.1129	1.0265	0.8623	6.1600e-003		0.0780	0.0780		0.0780	0.0780		1,231.8115	1,231.8115	0.0236	0.0226	1,239.1316
Medical Office Building	1.47936	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3.60452	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	213.902	2.3068	19.7125	8.3883	0.1258		1.5938	1.5938		1.5938	1.5938		25,164.8906	25,164.8906	0.4823	0.4614	25,314.4329
Supermarket	4.49479	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		5.8764	51.7300	32.4698	0.3205		4.0600	4.0600		4.0600	4.0600		64,105.8042	64,105.8042	1.2287	1.1753	64,486.7529

6.0 Area Detail

6.1 Mitigation Measures Area

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563
Unmitigated	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563

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	37.4235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	249.4596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	15.1951	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189		916.0862	916.0862	0.8748		937.9563
Total	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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	37.4235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	249.4596					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	15.1951	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189		916.0862	916.0862	0.8748		937.9563
Total	302.0782	5.8428	506.3743	0.0269		2.8189	2.8189		2.8189	2.8189	0.0000	916.0862	916.0862	0.8748	0.0000	937.9563

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

UWSP - Construction of Non-Phase I - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Sacramento Metropolitan AQMD Air District, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Arch Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	2	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	6	No Change	0.00
Generator Sets	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	29	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	12	No Change	0.00
Welders	Diesel	No Change	0	2	No Change	0.00

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	4.03340E-001	2.59036E+000	6.04509E+000	1.00100E-002	3.83200E-002	3.83200E-002	0.00000E+000	8.60191E+002	8.60191E+002	3.19100E-002	0.00000E+000	8.60989E+002
Cranes	7.13710E-001	1.68946E+000	3.98557E+000	2.09000E-002	5.83300E-002	5.83300E-002	0.00000E+000	1.79563E+003	1.79563E+003	5.71700E-002	0.00000E+000	1.79706E+003
Excavators	2.70700E-002	6.67100E-002	4.27210E-001	7.60000E-004	2.92000E-003	2.92000E-003	0.00000E+000	6.55117E+001	6.55117E+001	2.19000E-003	0.00000E+000	6.55665E+001
Forklifts	8.79730E-001	4.78356E+000	1.20334E+001	1.90400E-002	5.45000E-002	5.45000E-002	0.00000E+000	1.63583E+003	1.63583E+003	6.97600E-002	0.00000E+000	1.63758E+003
Generator Sets	5.89710E-001	5.46519E+000	1.22279E+001	2.21600E-002	6.91500E-002	6.91500E-002	0.00000E+000	1.90418E+003	1.90418E+003	4.72200E-002	0.00000E+000	1.90536E+003
Graders	3.50500E-002	1.10990E-001	1.86280E-001	9.70000E-004	3.89000E-003	3.89000E-003	0.00000E+000	8.36573E+001	8.36573E+001	2.80000E-003	0.00000E+000	8.37272E+001
Pavers	3.46700E-002	1.64670E-001	3.84340E-001	6.90000E-004	8.55000E-003	8.55000E-003	0.00000E+000	5.95759E+001	5.95759E+001	2.83000E-003	0.00000E+000	5.96467E+001
Paving Equipment	2.91700E-002	1.37080E-001	3.32490E-001	6.00000E-004	7.04000E-003	7.04000E-003	0.00000E+000	5.18507E+001	5.18507E+001	2.37000E-003	0.00000E+000	5.19100E+001
Rollers	1.92400E-002	1.25460E-001	2.34130E-001	3.90000E-004	4.25000E-003	4.25000E-003	0.00000E+000	3.31705E+001	3.31705E+001	1.58000E-003	0.00000E+000	3.32099E+001
Rubber Tired Dozers	1.40100E-001	7.64480E-001	5.52870E-001	2.51000E-003	2.88600E-002	2.88600E-002	0.00000E+000	2.15608E+002	2.15608E+002	1.13800E-002	0.00000E+000	2.15893E+002
Scrapers	1.40017E+000	5.71420E+000	6.40077E+000	2.70300E-002	2.16240E-001	2.16240E-001	0.00000E+000	2.78711E+003	2.78711E+003	1.12800E-001	0.00000E+000	2.78993E+003
Tractors/Loaders/Backhoes	1.51622E+000	8.94399E+000	2.15761E+001	3.49500E-002	1.23500E-001	1.23500E-001	0.00000E+000	3.00351E+003	3.00351E+003	1.21040E-001	0.00000E+000	3.00654E+003
Welders	5.09940E-001	3.88208E+000	5.35410E+000	8.61000E-003	3.04600E-002	3.04600E-002	0.00000E+000	6.34116E+002	6.34116E+002	4.12200E-002	0.00000E+000	6.35146E+002

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	4.03340E-001	2.59036E+000	6.04508E+000	1.00100E-002	3.83200E-002	3.83200E-002	0.00000E+000	8.60190E+002	8.60190E+002	3.19100E-002	0.00000E+000	8.60988E+002
Cranes	7.13710E-001	1.68946E+000	3.98556E+000	2.09000E-002	5.83300E-002	5.83300E-002	0.00000E+000	1.79562E+003	1.79562E+003	5.71700E-002	0.00000E+000	1.79705E+003
Excavators	2.70700E-002	6.67100E-002	4.27210E-001	7.60000E-004	2.92000E-003	2.92000E-003	0.00000E+000	6.55116E+001	6.55116E+001	2.19000E-003	0.00000E+000	6.55664E+001
Forklifts	8.79730E-001	4.78355E+000	1.20334E+001	1.90400E-002	5.45000E-002	5.45000E-002	0.00000E+000	1.63583E+003	1.63583E+003	6.97600E-002	0.00000E+000	1.63758E+003
Generator Sets	5.89710E-001	5.46519E+000	1.22278E+001	2.21600E-002	6.91500E-002	6.91500E-002	0.00000E+000	1.90418E+003	1.90418E+003	4.72200E-002	0.00000E+000	1.90536E+003
Graders	3.50500E-002	1.10990E-001	1.86280E-001	9.70000E-004	3.89000E-003	3.89000E-003	0.00000E+000	8.36572E+001	8.36572E+001	2.80000E-003	0.00000E+000	8.37271E+001
Pavers	3.46700E-002	1.64670E-001	3.84340E-001	6.90000E-004	8.55000E-003	8.55000E-003	0.00000E+000	5.95759E+001	5.95759E+001	2.83000E-003	0.00000E+000	5.96466E+001
Paving Equipment	2.91700E-002	1.37080E-001	3.32490E-001	6.00000E-004	7.04000E-003	7.04000E-003	0.00000E+000	5.18506E+001	5.18506E+001	2.37000E-003	0.00000E+000	5.19099E+001
Rollers	1.92400E-002	1.25460E-001	2.34130E-001	3.90000E-004	4.25000E-003	4.25000E-003	0.00000E+000	3.31704E+001	3.31704E+001	1.58000E-003	0.00000E+000	3.32098E+001
Rubber Tired Dozers	1.40100E-001	7.64480E-001	5.52870E-001	2.51000E-003	2.88600E-002	2.88600E-002	0.00000E+000	2.15608E+002	2.15608E+002	1.13800E-002	0.00000E+000	2.15892E+002
Scrapers	1.40017E+000	5.71420E+000	6.40077E+000	2.70300E-002	2.16240E-001	2.16240E-001	0.00000E+000	2.78710E+003	2.78710E+003	1.12800E-001	0.00000E+000	2.78992E+003
Tractors/Loaders/Balckhoes	1.51622E+000	8.94398E+000	2.15761E+001	3.49500E-002	1.23500E-001	1.23500E-001	0.00000E+000	3.00351E+003	3.00351E+003	1.21040E-001	0.00000E+000	3.00653E+003
Welders	5.09940E-001	3.88208E+000	5.35410E+000	8.61000E-003	3.04600E-002	3.04600E-002	0.00000E+000	6.34115E+002	6.34115E+002	4.12200E-002	0.00000E+000	6.35145E+002

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	1.65424E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19741E-006	1.19741E-006	0.00000E+000	0.00000E+000	1.18468E-006
Cranes	0.00000E+000	0.00000E+000	2.50905E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19178E-006	1.19178E-006	0.00000E+000	0.00000E+000	1.19084E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22116E-006	1.22116E-006	0.00000E+000	0.00000E+000	1.22014E-006
Forklifts	0.00000E+000	2.09049E-006	8.31021E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19205E-006	1.19205E-006	0.00000E+000	0.00000E+000	1.19078E-006
Generator Sets	0.00000E+000	0.00000E+000	8.17805E-007	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18686E-006	1.18686E-006	0.00000E+000	0.00000E+000	1.18612E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19535E-006	1.19535E-006	0.00000E+000	0.00000E+000	1.19436E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17497E-006	1.17497E-006	0.00000E+000	0.00000E+000	1.17358E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15717E-006	1.15717E-006	0.00000E+000	0.00000E+000	1.34849E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20589E-006	1.20589E-006	0.00000E+000	0.00000E+000	1.20446E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15951E-006	1.15951E-006	0.00000E+000	0.00000E+000	1.20430E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18761E-006	1.18761E-006	0.00000E+000	0.00000E+000	1.19000E-006
Tractors/Loaders/Balckhoes	0.00000E+000	1.11807E-006	1.39043E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19194E-006	1.19194E-006	0.00000E+000	0.00000E+000	1.18741E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18275E-006	1.18275E-006	0.00000E+000	0.00000E+000	1.18083E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction			

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Arch Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating	Roads	10.81	2.88	10.81	2.88	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	65.18	17.59	65.18	17.59	0.00	0.00
Grading	Fugitive Dust	0.55	0.22	0.55	0.22	0.00	0.00
Grading	Roads	0.04	0.01	0.04	0.01	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Site Preparation	Fugitive Dust	1.27	0.62	1.27	0.62	0.00	0.00
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.00	0.00

Operational Percent Reduction Summary

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.10	0.06
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.74		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	5.30		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program	5.40		Voluntary	
No	Commute	Transit Subsidy		0.00		
No	Commute	Implement Employee Parking "Cash Out"	4.50	0.00		
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00	0.00		2.00

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Commute	Provide Ride Sharing Program	10.00	0.00		
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00	0.00		
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

UWSP - Construction of Non-Phase I**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy		20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

UWSP - Construction of Non-Phase I

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Existing Conditions

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	40.00	1000sqft	0.92	40,000.00	0
General Light Industry	45.00	1000sqft	1.03	45,000.00	0
Unrefrigerated Warehouse-No Rail	70.00	1000sqft	1.61	70,000.00	0
Fast Food Restaurant with Drive Thru	3.00	1000sqft	0.07	3,000.00	0
Golf Course	12.00	Hole	83.77	0.00	0
High Turnover (Sit Down Restaurant)	9.00	1000sqft	0.21	9,000.00	0
Hotel	145.00	Room	4.83	210,540.00	0
Single Family Housing	20.00	Dwelling Unit	6.49	36,000.00	53
Convenience Market with Gas Pumps	12.00	Pump	0.04	1,694.10	0
Convenience Market with Gas Pumps	29.00	1000sqft	0.67	29,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to represent compliance with SMUD's RPS projections.

Land Use -

Construction Phase - construction not modeled.

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

Grading -

Vehicle Trips - Trip generation rates adjusted per project-specific traffic report.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	60.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	624.20	53.37
tblVehicleTrips	ST_TR	322.50	94.21
tblVehicleTrips	ST_TR	616.12	230.48
tblVehicleTrips	ST_TR	1.99	2.27
tblVehicleTrips	ST_TR	2.21	4.47
tblVehicleTrips	ST_TR	19.89	6.27
tblVehicleTrips	ST_TR	122.40	49.20
tblVehicleTrips	ST_TR	8.19	1.84
tblVehicleTrips	ST_TR	9.54	4.34
tblVehicleTrips	ST_TR	1.74	0.64
tblVehicleTrips	SU_TR	624.20	53.37
tblVehicleTrips	SU_TR	322.50	94.21
tblVehicleTrips	SU_TR	472.58	230.48
tblVehicleTrips	SU_TR	5.00	2.27
tblVehicleTrips	SU_TR	0.70	4.47
tblVehicleTrips	SU_TR	18.89	6.27
tblVehicleTrips	SU_TR	142.64	49.20
tblVehicleTrips	SU_TR	5.95	1.84
tblVehicleTrips	SU_TR	8.55	4.34
tblVehicleTrips	SU_TR	1.74	0.64
tblVehicleTrips	WD_TR	624.20	53.37
tblVehicleTrips	WD_TR	322.50	94.21
tblVehicleTrips	WD_TR	470.95	230.48

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

tblVehicleTrips	WD_TR	4.96	2.27
tblVehicleTrips	WD_TR	9.74	4.47
tblVehicleTrips	WD_TR	30.38	6.27
tblVehicleTrips	WD_TR	112.18	49.20
tblVehicleTrips	WD_TR	8.36	1.84
tblVehicleTrips	WD_TR	9.44	4.34
tblVehicleTrips	WD_TR	1.74	0.64

2.0 Emissions Summary

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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					
2023	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396
Maximum	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396
Maximum	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

Highest

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9533	2.4100e-003	0.2100	1.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	0.3460	0.3460	3.4000e-004	0.0000	0.3546
Energy	0.0699	0.6343	0.5238	3.8100e-003		0.0483	0.0483		0.0483	0.0483	0.0000	692.0498	692.0498	0.0794	0.0207	700.2073
Mobile	1.3080	1.2148	10.0025	0.0134	1.7765	7.7100e-003	1.7842	0.4743	7.1900e-003	0.4815	0.0000	1,362.1873	1,362.1873	0.1326	0.0994	1,395.1257
Waste						0.0000	0.0000		0.0000	0.0000	98.9946	0.0000	98.9946	5.8504	0.0000	245.2550
Water						0.0000	0.0000		0.0000	0.0000	15.7797	0.0000	15.7797	0.0633	0.0354	27.9096
Total	3.3312	1.8515	10.7363	0.0172	1.7765	0.0572	1.8337	0.4743	0.0567	0.5309	114.7743	2,054.5830	2,169.3573	6.1260	0.1555	2,368.8522

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9533	2.4100e-003	0.2100	1.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	0.3460	0.3460	3.4000e-004	0.0000	0.3546
Energy	0.0699	0.6343	0.5238	3.8100e-003		0.0483	0.0483		0.0483	0.0483	0.0000	692.0498	692.0498	0.0794	0.0207	700.2073
Mobile	1.3080	1.2148	10.0025	0.0134	1.7765	7.7100e-003	1.7842	0.4743	7.1900e-003	0.4815	0.0000	1,362.1873	1,362.1873	0.1326	0.0994	1,395.1257
Waste						0.0000	0.0000		0.0000	0.0000	98.9946	0.0000	98.9946	5.8504	0.0000	245.2550
Water						0.0000	0.0000		0.0000	0.0000	15.7797	0.0000	15.7797	0.0633	0.0354	27.9096
Total	3.3312	1.8515	10.7363	0.0172	1.7765	0.0572	1.8337	0.4743	0.0567	0.5309	114.7743	2,054.5830	2,169.3573	6.1260	0.1555	2,368.8522

	ROG	NOx	CO	SO2	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	10/19/2023	10/19/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0138	9.1200e-003	2.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861
Total	1.3300e-003	0.0138	9.1200e-003	2.0000e-005	9.8300e-003	6.3000e-004	0.0105	5.0500e-003	5.8000e-004	5.6300e-003	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0138	9.1200e-003	2.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861
Total	1.3300e-003	0.0138	9.1200e-003	2.0000e-005	9.8300e-003	6.3000e-004	0.0105	5.0500e-003	5.8000e-004	5.6300e-003	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Mitigated	1.3080	1.2148	10.0025	0.0134	1.7765	7.7100e-003	1.7842	0.4743	7.1900e-003	0.4815	0.0000	1,362.1873	1,362.1873	0.1326	0.0994	1,395.1257
Unmitigated	1.3080	1.2148	10.0025	0.0134	1.7765	7.7100e-003	1.7842	0.4743	7.1900e-003	0.4815	0.0000	1,362.1873	1,362.1873	0.1326	0.0994	1,395.1257

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	1,547.73	1,547.73	1547.73	614,113	614,113
Convenience Market with Gas Pumps	640.44	640.44	640.44	254,116	254,116
Convenience Market with Gas Pumps	2,732.09	2,732.09	2732.09	1,084,046	1,084,046
Convenience Market with Gas Pumps	1,130.52	1,130.52	1130.52	448,571	448,571
Fast Food Restaurant with Drive Thru	691.44	691.44	691.44	477,643	477,643
General Light Industry	102.15	102.15	102.15	282,521	282,521
General Office Building	178.80	178.80	178.80	369,241	369,241
Golf Course	75.24	75.24	75.24	117,529	117,529
High Turnover (Sit Down Restaurant)	442.80	442.80	442.80	393,471	393,471
Hotel	266.80	266.80	266.80	410,421	410,421
Single Family Housing	86.80	86.80	86.80	222,738	222,738
Unrefrigerated Warehouse-No Rail	44.80	44.80	44.80	130,292	130,292
Total	7,939.61	7,939.61	7,939.61	4,804,701	4,804,701

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Golf Course	10.00	5.00	6.50	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Light Industry	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Golf Course	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Unrefrigerated Warehouse-No Rail	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

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	0.0000	0.0000	0.0662	8.0200e-003	4.0450
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0662	8.0200e-003	4.0450
NaturalGas Mitigated	0.0699	0.6343	0.5238	3.8100e-003		0.0483	0.0483		0.0483	0.0483	0.0000	692.0498	692.0498	0.0133	0.0127	696.1623
NaturalGas Unmitigated	0.0699	0.6343	0.5238	3.8100e-003		0.0483	0.0483		0.0483	0.0483	0.0000	692.0498	692.0498	0.0133	0.0127	696.1623

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	155730	8.4000e-004	7.6300e-003	6.4100e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.3104	8.3104	1.6000e-004	1.5000e-004	8.3597
Convenience Market with Gas Pumps	9097.32	5.0000e-005	4.5000e-004	3.7000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4855	0.4855	1.0000e-005	1.0000e-005	0.4884
Fast Food Restaurant with Drive Thru	531330	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3538	28.3538	5.4000e-004	5.2000e-004	28.5223
General Light Industry	1.60065e+006	8.6300e-003	0.0785	0.0659	4.7000e-004		5.9600e-003	5.9600e-003		5.9600e-003	5.9600e-003	0.0000	85.4168	85.4168	1.6400e-003	1.5700e-003	85.9244
General Office Building	519200	2.8000e-003	0.0255	0.0214	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	27.7065	27.7065	5.3000e-004	5.1000e-004	27.8711
Golf Course	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
High Turnover (Sit Down Restaurant)	1.59399e+006	8.6000e-003	0.0781	0.0656	4.7000e-004		5.9400e-003	5.9400e-003		5.9400e-003	5.9400e-003	0.0000	85.0614	85.0614	1.6300e-003	1.5600e-003	85.5669
Hotel	8.05105e+006	0.0434	0.3947	0.3315	2.3700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	429.6347	429.6347	8.2300e-003	7.8800e-003	432.1878
Single Family Housing	473176	2.5500e-003	0.0218	9.2800e-003	1.4000e-004		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	25.2505	25.2505	4.8000e-004	4.6000e-004	25.4005
Unrefrigerated Warehouse-No Rail	34300	1.8000e-004	1.6800e-003	1.4100e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8304	1.8304	4.0000e-005	3.0000e-005	1.8413
Total		0.0699	0.6343	0.5238	3.8200e-003		0.0483	0.0483		0.0483	0.0483	0.0000	692.0498	692.0498	0.0133	0.0127	696.1623

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Convenience Market with Gas Pumps	155730	8.4000e-004	7.6300e-003	6.4100e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.3104	8.3104	1.6000e-004	1.5000e-004	8.3597
Convenience Market with Gas Pumps	9097.32	5.0000e-005	4.5000e-004	3.7000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4855	0.4855	1.0000e-005	1.0000e-005	0.4884
Fast Food Restaurant with Drive Thru	531330	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003	0.0000	28.3538	28.3538	5.4000e-004	5.2000e-004	28.5223
General Light Industry	1.60065e+006	8.6300e-003	0.0785	0.0659	4.7000e-004		5.9600e-003	5.9600e-003		5.9600e-003	5.9600e-003	0.0000	85.4168	85.4168	1.6400e-003	1.5700e-003	85.9244
General Office Building	519200	2.8000e-003	0.0255	0.0214	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	27.7065	27.7065	5.3000e-004	5.1000e-004	27.8711
Golf Course	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
High Turnover (Sit Down Restaurant)	1.59399e+006	8.6000e-003	0.0781	0.0656	4.7000e-004		5.9400e-003	5.9400e-003		5.9400e-003	5.9400e-003	0.0000	85.0614	85.0614	1.6300e-003	1.5600e-003	85.5669
Hotel	8.05105e+006	0.0434	0.3947	0.3315	2.3700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	429.6347	429.6347	8.2300e-003	7.8800e-003	432.1878
Single Family Housing	473176	2.5500e-003	0.0218	9.2800e-003	1.4000e-004		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	25.2505	25.2505	4.8000e-004	4.6000e-004	25.4005
Unrefrigerated Warehouse-No Rail	34300	1.8000e-004	1.6800e-003	1.4100e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8304	1.8304	4.0000e-005	3.0000e-005	1.8413
Total		0.0699	0.6343	0.5238	3.8200e-003		0.0483	0.0483		0.0483	0.0483	0.0000	692.0498	692.0498	0.0133	0.0127	696.1623

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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			
Convenience Market with Gas Pumps	19007.8	0.0000	2.8000e-004	3.0000e-005	0.0174
Convenience Market with Gas Pumps	325380	0.0000	4.8700e-003	5.9000e-004	0.2977
Fast Food Restaurant with Drive Thru	122310	0.0000	1.8300e-003	2.2000e-004	0.1119
General Light Industry	666900	0.0000	9.9800e-003	1.2100e-003	0.6101
General Office Building	556000	0.0000	8.3200e-003	1.0100e-003	0.5087
Golf Course	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	366930	0.0000	5.4900e-003	6.7000e-004	0.3357
Hotel	1.98329e+006	0.0000	0.0297	3.6000e-003	1.8145
Single Family Housing	158148	0.0000	2.3700e-003	2.9000e-004	0.1447
Unrefrigerated Warehouse-No Rail	223300	0.0000	3.3400e-003	4.1000e-004	0.2043
Total		0.0000	0.0662	8.0300e-003	4.0450

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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			
Convenience Market with Gas Pumps	19007.8	0.0000	2.8000e-004	3.0000e-005	0.0174
Convenience Market with Gas Pumps	325380	0.0000	4.8700e-003	5.9000e-004	0.2977
Fast Food Restaurant with Drive Thru	122310	0.0000	1.8300e-003	2.2000e-004	0.1119
General Light Industry	666900	0.0000	9.9800e-003	1.2100e-003	0.6101
General Office Building	556000	0.0000	8.3200e-003	1.0100e-003	0.5087
Golf Course	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	366930	0.0000	5.4900e-003	6.7000e-004	0.3357
Hotel	1.98329e+006	0.0000	0.0297	3.6000e-003	1.8145
Single Family Housing	158148	0.0000	2.3700e-003	2.9000e-004	0.1447
Unrefrigerated Warehouse-No Rail	223300	0.0000	3.3400e-003	4.1000e-004	0.2043
Total		0.0000	0.0662	8.0300e-003	4.0450

6.0 Area Detail**6.1 Mitigation Measures Area**

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9533	2.4100e-003	0.2100	1.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	0.3460	0.3460	3.4000e-004	0.0000	0.3546
Unmitigated	1.9533	2.4100e-003	0.2100	1.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	0.3460	0.3460	3.4000e-004	0.0000	0.3546

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	0.2117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7350					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5700e-003	2.4100e-003	0.2100	1.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	0.3460	0.3460	3.4000e-004	0.0000	0.3546
Total	1.9533	2.4100e-003	0.2100	1.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	0.3460	0.3460	3.4000e-004	0.0000	0.3546

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Architectural Coating	0.2117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7350					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5700e-003	2.4100e-003	0.2100	1.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	0.3460	0.3460	3.4000e-004	0.0000	0.3546
Total	1.9533	2.4100e-003	0.2100	1.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	0.3460	0.3460	3.4000e-004	0.0000	0.3546

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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	15.7797	0.0633	0.0354	27.9096
Unmitigated	15.7797	0.0633	0.0354	27.9096

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market with Gas Pumps	0.125486 / 0.0769109	0.0444	1.7000e-004	1.0000e-004	0.0778
Convenience Market with Gas Pumps	2.1481 / 1.31658	0.7600	2.8500e-003	1.6800e-003	1.3319
Fast Food Restaurant with Drive Thru	0.910601 / 0.0581235	0.3222	1.1800e-003	7.1000e-004	0.5630
General Light Industry	10.4063 / 0	3.6818	0.0135	8.1000e-003	6.4320
General Office Building	7.10935 / 4.35734	2.5153	9.4200e-003	5.5600e-003	4.4081
Golf Course	0 / 99.8142	0.0000	5.2300e-003	6.3000e-004	0.3196
High Turnover (Sit Down Restaurant)	2.7318 / 0.17437	0.9665	3.5400e-003	2.1300e-003	1.6891
Hotel	3.67818 / 0.408687	1.3014	4.7700e-003	2.8700e-003	2.2747
Single Family Housing	1.30308 / 0.821507	0.4610	1.7300e-003	1.0200e-003	0.8081
Unrefrigerated Warehouse-No Rail	16.1875 / 0	5.7272	0.0209	0.0126	10.0053
Total		15.7797	0.0633	0.0354	27.9096

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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			
Convenience Market with Gas Pumps	0.125486 / 0.0769109	0.0444	1.7000e-004	1.0000e-004	0.0778
Convenience Market with Gas Pumps	2.1481 / 1.31658	0.7600	2.8500e-003	1.6800e-003	1.3319
Fast Food Restaurant with Drive Thru	0.910601 / 0.0581235	0.3222	1.1800e-003	7.1000e-004	0.5630
General Light Industry	10.4063 / 0	3.6818	0.0135	8.1000e-003	6.4320
General Office Building	7.10935 / 4.35734	2.5153	9.4200e-003	5.5600e-003	4.4081
Golf Course	0 / 99.8142	0.0000	5.2300e-003	6.3000e-004	0.3196
High Turnover (Sit Down Restaurant)	2.7318 / 0.17437	0.9665	3.5400e-003	2.1300e-003	1.6891
Hotel	3.67818 / 0.408687	1.3014	4.7700e-003	2.8700e-003	2.2747
Single Family Housing	1.30308 / 0.821507	0.4610	1.7300e-003	1.0200e-003	0.8081
Unrefrigerated Warehouse-No Rail	16.1875 / 0	5.7272	0.0209	0.0126	10.0053
Total		15.7797	0.0633	0.0354	27.9096

8.0 Waste Detail

8.1 Mitigation Measures Waste

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	98.9946	5.8504	0.0000	245.2550
Unmitigated	98.9946	5.8504	0.0000	245.2550

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	87.15	17.6907	1.0455	0.0000	43.8279
Fast Food Restaurant with Drive Thru	34.56	7.0154	0.4146	0.0000	17.3803
General Light Industry	55.8	11.3269	0.6694	0.0000	28.0619
General Office Building	37.2	7.5513	0.4463	0.0000	18.7079
Golf Course	1.6	0.3248	0.0192	0.0000	0.8046
High Turnover (Sit Down Restaurant)	107.1	21.7403	1.2848	0.0000	53.8608
Hotel	79.39	16.1155	0.9524	0.0000	39.9254
Single Family Housing	19.08	3.8731	0.2289	0.0000	9.5954
Unrefrigerated Warehouse-No Rail	65.8	13.3568	0.7894	0.0000	33.0909
Total		98.9946	5.8504	0.0000	245.2550

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market with Gas Pumps	87.15	17.6907	1.0455	0.0000	43.8279
Fast Food Restaurant with Drive Thru	34.56	7.0154	0.4146	0.0000	17.3803
General Light Industry	55.8	11.3269	0.6694	0.0000	28.0619
General Office Building	37.2	7.5513	0.4463	0.0000	18.7079
Golf Course	1.6	0.3248	0.0192	0.0000	0.8046
High Turnover (Sit Down Restaurant)	107.1	21.7403	1.2848	0.0000	53.8608
Hotel	79.39	16.1155	0.9524	0.0000	39.9254
Single Family Housing	19.08	3.8731	0.2289	0.0000	9.5954
Unrefrigerated Warehouse-No Rail	65.8	13.3568	0.7894	0.0000	33.0909
Total		98.9946	5.8504	0.0000	245.2550

9.0 Operational Offroad

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

10.0 Stationary Equipment

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Annual

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

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Summer

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

UWSP - Existing Conditions

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	40.00	1000sqft	0.92	40,000.00	0
General Light Industry	45.00	1000sqft	1.03	45,000.00	0
Unrefrigerated Warehouse-No Rail	70.00	1000sqft	1.61	70,000.00	0
Fast Food Restaurant with Drive Thru	3.00	1000sqft	0.07	3,000.00	0
Golf Course	12.00	Hole	83.77	0.00	0
High Turnover (Sit Down Restaurant)	9.00	1000sqft	0.21	9,000.00	0
Hotel	145.00	Room	4.83	210,540.00	0
Single Family Housing	20.00	Dwelling Unit	6.49	36,000.00	53
Convenience Market with Gas Pumps	12.00	Pump	0.04	1,694.10	0
Convenience Market with Gas Pumps	29.00	1000sqft	0.67	29,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to represent compliance with SMUD's RPS projections.

Land Use -

Construction Phase - construction not modeled.

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Summer

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

Grading -

Vehicle Trips - Trip generation rates adjusted per project-specific traffic report.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	60.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	624.20	53.37
tblVehicleTrips	ST_TR	322.50	94.21
tblVehicleTrips	ST_TR	616.12	230.48
tblVehicleTrips	ST_TR	1.99	2.27
tblVehicleTrips	ST_TR	2.21	4.47
tblVehicleTrips	ST_TR	19.89	6.27
tblVehicleTrips	ST_TR	122.40	49.20
tblVehicleTrips	ST_TR	8.19	1.84
tblVehicleTrips	ST_TR	9.54	4.34
tblVehicleTrips	ST_TR	1.74	0.64
tblVehicleTrips	SU_TR	624.20	53.37
tblVehicleTrips	SU_TR	322.50	94.21
tblVehicleTrips	SU_TR	472.58	230.48
tblVehicleTrips	SU_TR	5.00	2.27
tblVehicleTrips	SU_TR	0.70	4.47
tblVehicleTrips	SU_TR	18.89	6.27
tblVehicleTrips	SU_TR	142.64	49.20
tblVehicleTrips	SU_TR	5.95	1.84
tblVehicleTrips	SU_TR	8.55	4.34
tblVehicleTrips	SU_TR	1.74	0.64
tblVehicleTrips	WD_TR	624.20	53.37
tblVehicleTrips	WD_TR	322.50	94.21
tblVehicleTrips	WD_TR	470.95	230.48

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Summer

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

tblVehicleTrips	WD_TR	4.96	2.27
tblVehicleTrips	WD_TR	9.74	4.47
tblVehicleTrips	WD_TR	30.38	6.27
tblVehicleTrips	WD_TR	112.18	49.20
tblVehicleTrips	WD_TR	8.36	1.84
tblVehicleTrips	WD_TR	9.44	4.34
tblVehicleTrips	WD_TR	1.74	0.64

2.0 Emissions Summary

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

Unmitigated Construction

Mitigated Construction

[illegible]

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268
Energy	0.3832	3.4757	2.8701	0.0209		0.2647	0.2647		0.2647	0.2647		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634
Mobile	10.1035	6.2347	53.5348	0.0785	10.1076	0.0424	10.1500	2.6910	0.0395	2.7305		8,822.0778	8,822.0778	0.7389	0.5777	9,012.6999
Total	21.2060	9.7297	58.0847	0.0995	10.1076	0.3164	10.4240	2.6910	0.3135	3.0045	0.0000	13,005.1523	13,005.1523	0.8221	0.6543	13,220.6901

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	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268
Energy	0.3832	3.4757	2.8701	0.0209		0.2647	0.2647		0.2647	0.2647		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634
Mobile	10.1035	6.2347	53.5348	0.0785	10.1076	0.0424	10.1500	2.6910	0.0395	2.7305		8,822.0778	8,822.0778	0.7389	0.5777	9,012.6999
Total	21.2060	9.7297	58.0847	0.0995	10.1076	0.3164	10.4240	2.6910	0.3135	3.0045	0.0000	13,005.1523	13,005.1523	0.8221	0.6543	13,220.6901

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	10/19/2023	10/19/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	10.1035	6.2347	53.5348	0.0785	10.1076	0.0424	10.1500	2.6910	0.0395	2.7305		8,822.0778	8,822.0778	0.7389	0.5777	9,012.6999
Unmitigated	10.1035	6.2347	53.5348	0.0785	10.1076	0.0424	10.1500	2.6910	0.0395	2.7305		8,822.0778	8,822.0778	0.7389	0.5777	9,012.6999

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	1,547.73	1,547.73	1547.73	614,113	614,113
Convenience Market with Gas Pumps	640.44	640.44	640.44	254,116	254,116
Convenience Market with Gas Pumps	2,732.09	2,732.09	2732.09	1,084,046	1,084,046
Convenience Market with Gas Pumps	1,130.52	1,130.52	1130.52	448,571	448,571
Fast Food Restaurant with Drive Thru	691.44	691.44	691.44	477,643	477,643
General Light Industry	102.15	102.15	102.15	282,521	282,521
General Office Building	178.80	178.80	178.80	369,241	369,241
Golf Course	75.24	75.24	75.24	117,529	117,529
High Turnover (Sit Down Restaurant)	442.80	442.80	442.80	393,471	393,471
Hotel	266.80	266.80	266.80	410,421	410,421
Single Family Housing	86.80	86.80	86.80	222,738	222,738
Unrefrigerated Warehouse-No Rail	44.80	44.80	44.80	130,292	130,292
Total	7,939.61	7,939.61	7,939.61	4,804,701	4,804,701

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Summer

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

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Golf Course	10.00	5.00	6.50	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Light Industry	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Golf Course	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Unrefrigerated Warehouse-No Rail	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Summer

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

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	0.3832	3.4757	2.8701	0.0209		0.2647	0.2647		0.2647	0.2647		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634
NaturalGas Unmitigated	0.3832	3.4757	2.8701	0.0209		0.2647	0.2647		0.2647	0.2647		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market with Gas Pumps	24.9242	2.7000e-004	2.4400e-003	2.0500e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		2.9323	2.9323	6.0000e-005	5.0000e-005	2.9497
Convenience Market with Gas Pumps	426.658	4.6000e-003	0.0418	0.0351	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.1950	50.1950	9.6000e-004	9.2000e-004	50.4933
Fast Food Restaurant with Drive Thru	1455.7	0.0157	0.1427	0.1199	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.2587	171.2587	3.2800e-003	3.1400e-003	172.2764
General Light Industry	4385.34	0.0473	0.4299	0.3612	2.5800e-003		0.0327	0.0327		0.0327	0.0327		515.9226	515.9226	9.8900e-003	9.4600e-003	518.9885
General Office Building	1422.47	0.0153	0.1395	0.1171	8.4000e-004		0.0106	0.0106		0.0106	0.0106		167.3489	167.3489	3.2100e-003	3.0700e-003	168.3434
Golf Course	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
High Turnover (Sit Down Restaurant)	4367.1	0.0471	0.4282	0.3596	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7760	513.7760	9.8500e-003	9.4200e-003	516.8291
Hotel	22057.7	0.2379	2.1625	1.8165	0.0130		0.1644	0.1644		0.1644	0.1644		2,595.0200	2,595.0200	0.0497	0.0476	2,610.4409
Single Family Housing	1296.37	0.0140	0.1195	0.0508	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003		152.5145	152.5145	2.9200e-003	2.8000e-003	153.4208
Unrefrigerated Warehouse-No Rail	93.9726	1.0100e-003	9.2100e-003	7.7400e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0556	11.0556	2.1000e-004	2.0000e-004	11.1213
Total		0.3832	3.4757	2.8701	0.0209		0.2648	0.2648		0.2648	0.2648		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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					
Convenience Market with Gas Pumps	0.0249242	2.7000e-004	2.4400e-003	2.0500e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		2.9323	2.9323	6.0000e-005	5.0000e-005	2.9497
Convenience Market with Gas Pumps	0.426658	4.6000e-003	0.0418	0.0351	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.1950	50.1950	9.6000e-004	9.2000e-004	50.4933
Fast Food Restaurant with Drive Thru	1.4557	0.0157	0.1427	0.1199	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.2587	171.2587	3.2800e-003	3.1400e-003	172.2764
General Light Industry	4.38534	0.0473	0.4299	0.3612	2.5800e-003		0.0327	0.0327		0.0327	0.0327		515.9226	515.9226	9.8900e-003	9.4600e-003	518.9885
General Office Building	1.42247	0.0153	0.1395	0.1171	8.4000e-004		0.0106	0.0106		0.0106	0.0106		167.3489	167.3489	3.2100e-003	3.0700e-003	168.3434
Golf Course	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
High Turnover (Sit Down Restaurant)	4.3671	0.0471	0.4282	0.3596	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7760	513.7760	9.8500e-003	9.4200e-003	516.8291
Hotel	22.0577	0.2379	2.1625	1.8165	0.0130		0.1644	0.1644		0.1644	0.1644		2,595.0200	2,595.0200	0.0497	0.0476	2,610.4409
Single Family Housing	1.29637	0.0140	0.1195	0.0508	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003		152.5145	152.5145	2.9200e-003	2.8000e-003	153.4208
Unrefrigerated Warehouse-No Rail	0.0939726	1.0100e-003	9.2100e-003	7.7400e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0556	11.0556	2.1000e-004	2.0000e-004	11.1213
Total		0.3832	3.4757	2.8701	0.0209		0.2648	0.2648		0.2648	0.2648		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634

6.0 Area Detail

6.1 Mitigation Measures Area

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268
Unmitigated	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268

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	1.1602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.5066					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0525	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		3.0509	3.0509	3.0300e-003		3.1268
Total	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	1.1602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.5066					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0525	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		3.0509	3.0509	3.0300e-003		3.1268
Total	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268

7.0 Water Detail

7.1 Mitigation Measures Water

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Winter

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

UWSP - Existing Conditions

Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	40.00	1000sqft	0.92	40,000.00	0
General Light Industry	45.00	1000sqft	1.03	45,000.00	0
Unrefrigerated Warehouse-No Rail	70.00	1000sqft	1.61	70,000.00	0
Fast Food Restaurant with Drive Thru	3.00	1000sqft	0.07	3,000.00	0
Golf Course	12.00	Hole	83.77	0.00	0
High Turnover (Sit Down Restaurant)	9.00	1000sqft	0.21	9,000.00	0
Hotel	145.00	Room	4.83	210,540.00	0
Single Family Housing	20.00	Dwelling Unit	6.49	36,000.00	53
Convenience Market with Gas Pumps	12.00	Pump	0.04	1,694.10	0
Convenience Market with Gas Pumps	29.00	1000sqft	0.67	29,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to represent compliance with SMUD's RPS projections.

Land Use -

Construction Phase - construction not modeled.

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Winter

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

Grading -

Vehicle Trips - Trip generation rates adjusted per project-specific traffic report.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	60.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	624.20	53.37
tblVehicleTrips	ST_TR	322.50	94.21
tblVehicleTrips	ST_TR	616.12	230.48
tblVehicleTrips	ST_TR	1.99	2.27
tblVehicleTrips	ST_TR	2.21	4.47
tblVehicleTrips	ST_TR	19.89	6.27
tblVehicleTrips	ST_TR	122.40	49.20
tblVehicleTrips	ST_TR	8.19	1.84
tblVehicleTrips	ST_TR	9.54	4.34
tblVehicleTrips	ST_TR	1.74	0.64
tblVehicleTrips	SU_TR	624.20	53.37
tblVehicleTrips	SU_TR	322.50	94.21
tblVehicleTrips	SU_TR	472.58	230.48
tblVehicleTrips	SU_TR	5.00	2.27
tblVehicleTrips	SU_TR	0.70	4.47
tblVehicleTrips	SU_TR	18.89	6.27
tblVehicleTrips	SU_TR	142.64	49.20
tblVehicleTrips	SU_TR	5.95	1.84
tblVehicleTrips	SU_TR	8.55	4.34
tblVehicleTrips	SU_TR	1.74	0.64
tblVehicleTrips	WD_TR	624.20	53.37
tblVehicleTrips	WD_TR	322.50	94.21
tblVehicleTrips	WD_TR	470.95	230.48

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Winter

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

tblVehicleTrips	WD_TR	4.96	2.27
tblVehicleTrips	WD_TR	9.74	4.47
tblVehicleTrips	WD_TR	30.38	6.27
tblVehicleTrips	WD_TR	112.18	49.20
tblVehicleTrips	WD_TR	8.36	1.84
tblVehicleTrips	WD_TR	9.44	4.34
tblVehicleTrips	WD_TR	1.74	0.64

2.0 Emissions Summary

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

Unmitigated Construction

Mitigated Construction

[illegible]

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268
Energy	0.3832	3.4757	2.8701	0.0209		0.2647	0.2647		0.2647	0.2647		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634
Mobile	6.4395	7.1657	62.5436	0.0724	10.1076	0.0425	10.1501	2.6910	0.0396	2.7306		8,125.3971	8,125.3971	0.8842	0.6391	8,337.9384
Total	17.5420	10.6607	67.0935	0.0933	10.1076	0.3165	10.4241	2.6910	0.3136	3.0046	0.0000	12,308.4716	12,308.4716	0.9673	0.7157	12,545.9285

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	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268
Energy	0.3832	3.4757	2.8701	0.0209		0.2647	0.2647		0.2647	0.2647		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634
Mobile	6.4395	7.1657	62.5436	0.0724	10.1076	0.0425	10.1501	2.6910	0.0396	2.7306		8,125.3971	8,125.3971	0.8842	0.6391	8,337.9384
Total	17.5420	10.6607	67.0935	0.0933	10.1076	0.3165	10.4241	2.6910	0.3136	3.0046	0.0000	12,308.4716	12,308.4716	0.9673	0.7157	12,545.9285

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	10/19/2023	10/19/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	6.4395	7.1657	62.5436	0.0724	10.1076	0.0425	10.1501	2.6910	0.0396	2.7306		8,125.397 1	8,125.397 1	0.8842	0.6391	8,337.938 4
Unmitigated	6.4395	7.1657	62.5436	0.0724	10.1076	0.0425	10.1501	2.6910	0.0396	2.7306		8,125.397 1	8,125.397 1	0.8842	0.6391	8,337.938 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market with Gas Pumps	1,547.73	1,547.73	1547.73	614,113	614,113
Convenience Market with Gas Pumps	640.44	640.44	640.44	254,116	254,116
Convenience Market with Gas Pumps	2,732.09	2,732.09	2732.09	1,084,046	1,084,046
Convenience Market with Gas Pumps	1,130.52	1,130.52	1130.52	448,571	448,571
Fast Food Restaurant with Drive Thru	691.44	691.44	691.44	477,643	477,643
General Light Industry	102.15	102.15	102.15	282,521	282,521
General Office Building	178.80	178.80	178.80	369,241	369,241
Golf Course	75.24	75.24	75.24	117,529	117,529
High Turnover (Sit Down Restaurant)	442.80	442.80	442.80	393,471	393,471
Hotel	266.80	266.80	266.80	410,421	410,421
Single Family Housing	86.80	86.80	86.80	222,738	222,738
Unrefrigerated Warehouse-No Rail	44.80	44.80	44.80	130,292	130,292
Total	7,939.61	7,939.61	7,939.61	4,804,701	4,804,701

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Winter

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

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
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Convenience Market with Gas	10.00	5.00	6.50	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Light Industry	10.00	5.00	6.50	59.00	28.00	13.00	92	5	3
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Golf Course	10.00	5.00	6.50	33.00	48.00	19.00	52	39	9
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Unrefrigerated Warehouse-No	10.00	5.00	6.50	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market with Gas Pumps	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Light Industry	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Golf Course	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Unrefrigerated Warehouse-No Rail	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, Winter

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

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	0.3832	3.4757	2.8701	0.0209		0.2647	0.2647		0.2647	0.2647		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634
NaturalGas Unmitigated	0.3832	3.4757	2.8701	0.0209		0.2647	0.2647		0.2647	0.2647		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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					
Convenience Market with Gas Pumps	24.9242	2.7000e-004	2.4400e-003	2.0500e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		2.9323	2.9323	6.0000e-005	5.0000e-005	2.9497
Convenience Market with Gas Pumps	426.658	4.6000e-003	0.0418	0.0351	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.1950	50.1950	9.6000e-004	9.2000e-004	50.4933
Fast Food Restaurant with Drive Thru	1455.7	0.0157	0.1427	0.1199	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.2587	171.2587	3.2800e-003	3.1400e-003	172.2764
General Light Industry	4385.34	0.0473	0.4299	0.3612	2.5800e-003		0.0327	0.0327		0.0327	0.0327		515.9226	515.9226	9.8900e-003	9.4600e-003	518.9885
General Office Building	1422.47	0.0153	0.1395	0.1171	8.4000e-004		0.0106	0.0106		0.0106	0.0106		167.3489	167.3489	3.2100e-003	3.0700e-003	168.3434
Golf Course	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
High Turnover (Sit Down Restaurant)	4367.1	0.0471	0.4282	0.3596	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7760	513.7760	9.8500e-003	9.4200e-003	516.8291
Hotel	22057.7	0.2379	2.1625	1.8165	0.0130		0.1644	0.1644		0.1644	0.1644		2,595.0200	2,595.0200	0.0497	0.0476	2,610.4409
Single Family Housing	1296.37	0.0140	0.1195	0.0508	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003		152.5145	152.5145	2.9200e-003	2.8000e-003	153.4208
Unrefrigerated Warehouse-No Rail	93.9726	1.0100e-003	9.2100e-003	7.7400e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0556	11.0556	2.1000e-004	2.0000e-004	11.1213
Total		0.3832	3.4757	2.8701	0.0209		0.2648	0.2648		0.2648	0.2648		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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					
Convenience Market with Gas Pumps	0.0249242	2.7000e-004	2.4400e-003	2.0500e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		2.9323	2.9323	6.0000e-005	5.0000e-005	2.9497
Convenience Market with Gas Pumps	0.426658	4.6000e-003	0.0418	0.0351	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003		50.1950	50.1950	9.6000e-004	9.2000e-004	50.4933
Fast Food Restaurant with Drive Thru	1.4557	0.0157	0.1427	0.1199	8.6000e-004		0.0109	0.0109		0.0109	0.0109		171.2587	171.2587	3.2800e-003	3.1400e-003	172.2764
General Light Industry	4.38534	0.0473	0.4299	0.3612	2.5800e-003		0.0327	0.0327		0.0327	0.0327		515.9226	515.9226	9.8900e-003	9.4600e-003	518.9885
General Office Building	1.42247	0.0153	0.1395	0.1171	8.4000e-004		0.0106	0.0106		0.0106	0.0106		167.3489	167.3489	3.2100e-003	3.0700e-003	168.3434
Golf Course	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
High Turnover (Sit Down Restaurant)	4.3671	0.0471	0.4282	0.3596	2.5700e-003		0.0325	0.0325		0.0325	0.0325		513.7760	513.7760	9.8500e-003	9.4200e-003	516.8291
Hotel	22.0577	0.2379	2.1625	1.8165	0.0130		0.1644	0.1644		0.1644	0.1644		2,595.0200	2,595.0200	0.0497	0.0476	2,610.4409
Single Family Housing	1.29637	0.0140	0.1195	0.0508	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003		152.5145	152.5145	2.9200e-003	2.8000e-003	153.4208
Unrefrigerated Warehouse-No Rail	0.0939726	1.0100e-003	9.2100e-003	7.7400e-003	6.0000e-005		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004		11.0556	11.0556	2.1000e-004	2.0000e-004	11.1213
Total		0.3832	3.4757	2.8701	0.0209		0.2648	0.2648		0.2648	0.2648		4,180.0236	4,180.0236	0.0801	0.0766	4,204.8634

6.0 Area Detail

6.1 Mitigation Measures Area

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268
Unmitigated	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268

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	1.1602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.5066					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0525	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		3.0509	3.0509	3.0300e-003		3.1268
Total	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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	1.1602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	9.5066					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0525	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003		3.0509	3.0509	3.0300e-003		3.1268
Total	10.7194	0.0193	1.6798	9.0000e-005		9.2800e-003	9.2800e-003		9.2800e-003	9.2800e-003	0.0000	3.0509	3.0509	3.0300e-003	0.0000	3.1268

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - Existing Conditions - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Existing Conditions**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Sacramento Metropolitan AQMD Air District, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Rubber Tired Dozers	Diesel	No Change	0	3	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	4	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Rubber Tired Dozers	1.03000E-003	1.06900E-002	4.66000E-003	1.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.12536E+000	1.12536E+000	3.60000E-004	0.00000E+000	1.13446E+000
Tractors/Loaders/Backhoes	3.00000E-004	3.07000E-003	4.46000E-003	1.00000E-005	1.50000E-004	1.40000E-004	0.00000E+000	5.47170E-001	5.47170E-001	1.80000E-004	0.00000E+000	5.51600E-001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Rubber Tired Dozers	1.03000E-003	1.06900E-002	4.66000E-003	1.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.12536E+000	1.12536E+000	3.60000E-004	0.00000E+000	1.13446E+000
Tractors/Loaders/Backhoes	3.00000E-004	3.07000E-003	4.46000E-003	1.00000E-005	1.50000E-004	1.40000E-004	0.00000E+000	5.47170E-001	5.47170E-001	1.80000E-004	0.00000E+000	5.51590E-001

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.81291E-005

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction		
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00	
No	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Site Preparation	Fugitive Dust	0.01	0.01	0.01	0.01	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

UWSP - Existing Conditions**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.72		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

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

No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			

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

No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00	2.00	
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

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

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	

UWSP - Existing Conditions

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

No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Proposed Project

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 3.5 Precipitation Freq (Days) 58

Climate Zone 6 Operational Year 2045

Utility Company Sacramento Municipal Utility District

Operational Emissions - Proposed Project

CO2 Intensity 0 CH4 Intensity 0.033 N2O Intensity 0.004

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

(lb/MWahr)

(lb/MWahr)

(lb/MWahr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	4.91	3.69
tblVehicleTrips	ST_TR	10.71	19.54
tblVehicleTrips	ST_TR	616.12	319.28
tblVehicleTrips	ST_TR	2.21	6.75
tblVehicleTrips	ST_TR	0.00	15.40
tblVehicleTrips	ST_TR	20.87	18.04
tblVehicleTrips	ST_TR	0.58	1.38
tblVehicleTrips	ST_TR	122.40	75.90
tblVehicleTrips	ST_TR	8.19	4.20
tblVehicleTrips	ST_TR	0.42	1.92
tblVehicleTrips	ST_TR	0.00	1.44
tblVehicleTrips	ST_TR	8.57	24.62
tblVehicleTrips	ST_TR	46.12	37.49

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

tblVehicleTrips	ST_TR	9.54	6.40
tblVehicleTrips	ST_TR	177.62	66.32
tblVehicleTrips	SU_TR	4.09	3.69
tblVehicleTrips	SU_TR	10.71	19.54
tblVehicleTrips	SU_TR	472.58	319.28
tblVehicleTrips	SU_TR	0.70	6.75
tblVehicleTrips	SU_TR	0.00	15.40
tblVehicleTrips	SU_TR	26.73	18.04
tblVehicleTrips	SU_TR	0.25	1.38
tblVehicleTrips	SU_TR	142.64	75.90
tblVehicleTrips	SU_TR	5.95	4.20
tblVehicleTrips	SU_TR	0.04	1.92
tblVehicleTrips	SU_TR	0.00	1.44
tblVehicleTrips	SU_TR	1.42	24.62
tblVehicleTrips	SU_TR	21.10	37.49
tblVehicleTrips	SU_TR	8.55	6.40
tblVehicleTrips	SU_TR	166.47	66.32
tblVehicleTrips	WD_TR	5.44	3.69
tblVehicleTrips	WD_TR	10.71	19.54
tblVehicleTrips	WD_TR	470.95	319.28
tblVehicleTrips	WD_TR	9.74	6.75
tblVehicleTrips	WD_TR	22.59	15.40
tblVehicleTrips	WD_TR	32.93	18.04
tblVehicleTrips	WD_TR	2.03	1.38
tblVehicleTrips	WD_TR	112.18	75.90
tblVehicleTrips	WD_TR	8.36	4.20
tblVehicleTrips	WD_TR	1.15	1.92
tblVehicleTrips	WD_TR	2.13	1.44
tblVehicleTrips	WD_TR	34.80	24.62

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

tblVehicleTrips	WD_TR	37.75	37.49
tblVehicleTrips	WD_TR	9.44	6.40
tblVehicleTrips	WD_TR	106.78	66.32

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396
Maximum	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396
Maximum	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	0.0108	0.0108
		Highest	0.0108	0.0108

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	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Energy	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	1.8672	0.4502	14,161.5185
Mobile	26.0378	29.9396	262.5933	0.5275	76.0629	0.2584	76.3213	20.3066	0.2417	20.5483	0.0000	53,767.9104	53,767.9104	3.5637	2.6016	54,632.2733
Waste						0.0000	0.0000		0.0000	0.0000	2,580.0882	0.0000	2,580.0882	152.4789	0.0000	6,392.0594
Water						0.0000	0.0000		0.0000	0.0000	371.1318	0.0000	371.1318	1.3887	0.8206	650.3796
Total	106.9703	43.4500	366.3287	0.6097	76.0629	1.7699	77.8329	20.3066	1.7532	22.0598	2,951.2200	67,906.4612	70,857.6813	159.4490	3.8723	75,997.8544

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Energy	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	1.8672	0.4502	14,161.5185
Mobile	26.0378	29.9396	262.5933	0.5275	76.0629	0.2584	76.3213	20.3066	0.2417	20.5483	0.0000	53,767.9104	53,767.9104	3.5637	2.6016	54,632.2733
Waste						0.0000	0.0000		0.0000	0.0000	2,580.0882	0.0000	2,580.0882	152.4789	0.0000	6,392.0594
Water						0.0000	0.0000		0.0000	0.0000	371.1318	0.0000	371.1318	1.3821	0.8198	649.9760
Total	106.9703	43.4500	366.3287	0.6097	76.0629	1.7699	77.8329	20.3066	1.7532	22.0598	2,951.2200	67,906.4612	70,857.6813	159.4424	3.8715	75,997.4508

	ROG	NOx	CO	SO2	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	0.02	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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0138	9.1200e-003	2.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861
Total	1.3300e-003	0.0138	9.1200e-003	2.0000e-005	9.8300e-003	6.3000e-004	0.0105	5.0500e-003	5.8000e-004	5.6300e-003	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0138	9.1200e-003	2.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861
Total	1.3300e-003	0.0138	9.1200e-003	2.0000e-005	9.8300e-003	6.3000e-004	0.0105	5.0500e-003	5.8000e-004	5.6300e-003	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Mitigated	26.0378	29.9396	262.5933	0.5275	76.0629	0.2584	76.3213	20.3066	0.2417	20.5483	0.0000	53,767.91 04	53,767.91 04	3.5637	2.6016	54,632.27 33
Unmitigated	26.0378	29.9396	262.5933	0.5275	76.0629	0.2584	76.3213	20.3066	0.2417	20.5483	0.0000	53,767.91 04	53,767.91 04	3.5637	2.6016	54,632.27 33

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	18,409.41	18,409.41	18409.41	47,240,553	47,240,553
Arena	1,406.88	1,406.88	1406.88	1,978,797	1,978,797
Fast Food Restaurant with Drive Thru	7,662.72	7,662.72	7662.72	5,293,366	5,293,366
General Office Building	10,617.75	10,617.75	10617.75	21,926,757	21,926,757
Government Office Building	1,139.60	1,139.60	1139.60	1,638,569	1,638,569
Health Club	1,172.60	1,172.60	1172.60	1,619,497	1,619,497
High School	2,070.00	2,070.00	2070.00	5,391,592	5,391,592
High Turnover (Sit Down Restaurant)	7,893.60	7,893.60	7893.60	7,014,228	7,014,228
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,648,969
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,648,969
Junior College (2yr)	4,800.00	4,800.00	4800.00	8,838,757	8,838,757
Junior High School	4,320.00	4,320.00	4320.00	9,509,003	9,509,003
Medical Office Building	1,024.19	1,024.19	1024.19	1,706,100	1,706,100
Regional Shopping Center	9,185.05	9,185.05	9185.05	12,834,316	12,834,316

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	27,948.80	27,948.80	27,948.80	71,719,667	71,719,667
Supermarket	4,310.80	4,310.80	4,310.80	3,709,662	3,709,662
Total	105,405.40	105,405.40	105,405.40	205,718,801	205,718,801

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	1.5992	0.1938	97.7445
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	1.5992	0.1938	97.7445
NaturalGas Mitigated	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.69 37	13,980.69 37	0.2680	0.2563	14,063.77 40
NaturalGas Unmitigated	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.69 37	13,980.69 37	0.2680	0.2563	14,063.77 40

5.2 Energy by Land Use - NaturalGas**Unmitigated**

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.69776e+007	0.2533	2.1647	0.9211	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.9021	2,506.9021	0.0481	0.0460	2,521.7994
Arena	2.56104e+006	0.0138	0.1255	0.1055	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	136.6669	136.6669	2.6200e-003	2.5100e-003	137.4790
Fast Food Restaurant with Drive Thru	4.25064e+006	0.0229	0.2084	0.1750	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.8303	226.8303	4.3500e-003	4.1600e-003	228.1783
General Office Building	2.04175e+007	0.1101	1.0009	0.8407	6.0100e-003		0.0761	0.0761		0.0761	0.0761	0.0000	1,089.5577	1,089.5577	0.0209	0.0200	1,096.0324
Government Office Building	960520	5.1800e-003	0.0471	0.0396	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2570	51.2570	9.8000e-004	9.4000e-004	51.5616
Health Club	2.31205e+006	0.0125	0.1133	0.0952	6.8000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	123.3798	123.3798	2.3600e-003	2.2600e-003	124.1130
High School	3.00875e+006	0.0162	0.1475	0.1239	8.8000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.5584	160.5584	3.0800e-003	2.9400e-003	161.5125
High Turnover (Sit Down Restaurant)	1.84194e+007	0.0993	0.9029	0.7585	5.4200e-003		0.0686	0.0686		0.0686	0.0686	0.0000	982.9315	982.9315	0.0188	0.0180	988.7725
Hotel	2.2765e+007	0.2455	2.2319	1.8748	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.6581	2,429.6581	0.0466	0.0445	2,444.0964
Junior College (2yr)	5.40384e+006	0.0291	0.2649	0.2225	1.5900e-003		0.0201	0.0201		0.0201	0.0201	0.0000	288.3695	288.3695	5.5300e-003	5.2900e-003	290.0831
Junior High School	5.3326e+006	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199	0.0000	284.5677	284.5677	5.4500e-003	5.2200e-003	286.2588
Medical Office Building	539968	2.9100e-003	0.0265	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8148	28.8148	5.5000e-004	5.3000e-004	28.9860
Regional Shopping Center	1.31565e+006	7.0900e-003	0.0645	0.0542	3.9000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	70.2081	70.2081	1.3500e-003	1.2900e-003	70.6253
Single Family Housing	1.03318e+008	0.5571	4.7607	2.0258	0.0304		0.3849	0.3849		0.3849	0.3849	0.0000	5,513.4432	5,513.4432	0.1057	0.1011	5,546.2068
Supermarket	1.6406e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5487	87.5487	1.6800e-003	1.6100e-003	88.0689
Total		1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	0.2680	0.2563	14,063.7740

5.2 Energy by Land Use - NaturalGas

Mitigated

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	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					
Apartments Mid Rise	4.69776e+007	0.2533	2.1647	0.9211	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.9021	2,506.9021	0.0481	0.0460	2,521.7994
Arena	2.56104e+006	0.0138	0.1255	0.1055	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	136.6669	136.6669	2.6200e-003	2.5100e-003	137.4790
Fast Food Restaurant with Drive Thru	4.25064e+006	0.0229	0.2084	0.1750	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.8303	226.8303	4.3500e-003	4.1600e-003	228.1783
General Office Building	2.04175e+007	0.1101	1.0009	0.8407	6.0100e-003		0.0761	0.0761		0.0761	0.0761	0.0000	1,089.5577	1,089.5577	0.0209	0.0200	1,096.0324
Government Office Building	960520	5.1800e-003	0.0471	0.0396	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2570	51.2570	9.8000e-004	9.4000e-004	51.5616
Health Club	2.31205e+006	0.0125	0.1133	0.0952	6.8000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	123.3798	123.3798	2.3600e-003	2.2600e-003	124.1130
High School	3.00875e+006	0.0162	0.1475	0.1239	8.8000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.5584	160.5584	3.0800e-003	2.9400e-003	161.5125
High Turnover (Sit Down Restaurant)	1.84194e+007	0.0993	0.9029	0.7585	5.4200e-003		0.0686	0.0686		0.0686	0.0686	0.0000	982.9315	982.9315	0.0188	0.0180	988.7725
Hotel	2.2765e+007	0.2455	2.2319	1.8748	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.6581	2,429.6581	0.0466	0.0445	2,444.0964
Junior College (2yr)	5.40384e+006	0.0291	0.2649	0.2225	1.5900e-003		0.0201	0.0201		0.0201	0.0201	0.0000	288.3695	288.3695	5.5300e-003	5.2900e-003	290.0831
Junior High School	5.3326e+006	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199	0.0000	284.5677	284.5677	5.4500e-003	5.2200e-003	286.2588
Medical Office Building	539968	2.9100e-003	0.0265	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8148	28.8148	5.5000e-004	5.3000e-004	28.9860
Regional Shopping Center	1.31565e+006	7.0900e-003	0.0645	0.0542	3.9000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	70.2081	70.2081	1.3500e-003	1.2900e-003	70.6253
Single Family Housing	1.03318e+008	0.5571	4.7607	2.0258	0.0304		0.3849	0.3849		0.3849	0.3849	0.0000	5,513.4432	5,513.4432	0.1057	0.1011	5,546.2068
Supermarket	1.6406e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5487	87.5487	1.6800e-003	1.6100e-003	88.0689
Total		1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	0.2680	0.2563	14,063.7740

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments Mid Rise	1.94258e+007	0.0000	0.2908	0.0353	17.7726
Arena	1.06704e+006	0.0000	0.0160	1.9400e-003	0.9762
Fast Food Restaurant with Drive Thru	978480	0.0000	0.0147	1.7800e-003	0.8952
General Office Building	2.18647e+007	0.0000	0.3273	0.0397	20.0039
Government Office Building	1.0286e+006	0.0000	0.0154	1.8700e-003	0.9411
Health Club	963300	0.0000	0.0144	1.7500e-003	0.8813
High School	1.41284e+006	0.0000	0.0212	2.5600e-003	1.2926
High Turnover (Sit Down Restaurant)	4.24008e+006	0.0000	0.0635	7.6900e-003	3.8792
Hotel	5.60791e+006	0.0000	0.1679	0.0204	10.2613
Junior College (2yr)	1.69104e+006	0.0000	0.0253	3.0700e-003	1.5471
Junior High School	2.50406e+006	0.0000	0.0375	4.5400e-003	2.2910
Medical Office Building	578240	0.0000	8.6600e-003	1.0500e-003	0.5290
Regional Shopping Center	2.7489e+006	0.0000	0.0412	4.9900e-003	2.5150
Single Family Housing	3.45316e+007	0.0000	0.5169	0.0627	31.5928
Supermarket	2.58635e+006	0.0000	0.0387	4.6900e-003	2.3662
Total		0.0000	1.5992	0.1939	97.7445

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.94258e+007	0.0000	0.2908	0.0353	17.7726
Arena	1.06704e+006	0.0000	0.0160	1.9400e-003	0.9762
Fast Food Restaurant with Drive Thru	978480	0.0000	0.0147	1.7800e-003	0.8952
General Office Building	2.18647e+007	0.0000	0.3273	0.0397	20.0039
Government Office Building	1.0286e+006	0.0000	0.0154	1.8700e-003	0.9411
Health Club	963300	0.0000	0.0144	1.7500e-003	0.8813
High School	1.41284e+006	0.0000	0.0212	2.5600e-003	1.2926
High Turnover (Sit Down Restaurant)	4.24008e+006	0.0000	0.0635	7.6900e-003	3.8792
Hotel	5.60791e+006	0.0000	0.1679	0.0204	10.2613
Junior College (2yr)	1.69104e+006	0.0000	0.0253	3.0700e-003	1.5471
Junior High School	2.50406e+006	0.0000	0.0375	4.5400e-003	2.2910
Medical Office Building	578240	0.0000	8.6600e-003	1.0500e-003	0.5290
Regional Shopping Center	2.7489e+006	0.0000	0.0412	4.9900e-003	2.5150
Single Family Housing	3.45316e+007	0.0000	0.5169	0.0627	31.5928
Supermarket	2.58635e+006	0.0000	0.0387	4.6900e-003	2.3662
Total		0.0000	1.5992	0.1939	97.7445

6.0 Area Detail

Operational Emissions - Proposed Project

6.1 Mitigation Measures Area

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Unmitigated	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

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	9.9935					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	66.6416					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8848	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Total	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Architectural Coating	9.9935					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	66.6416					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8848	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Total	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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	371.1318	1.3821	0.8198	649.9760
Unmitigated	371.1318	1.3887	0.8206	650.3796

7.2 Water by Land Use**Unmitigated**

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	325.053 / 204.925	115.0044	0.4308	0.2543	201.5671
Arena	31.0154 / 1.97971	10.9733	0.0402	0.0242	19.1766
Fast Food Restaurant with Drive Thru	7.28481 / 0.464988	2.5774	9.4400e- 003	5.6700e- 003	4.5041
General Office Building	279.575 / 171.353	98.9141	0.3703	0.2187	173.3502
Government Office Building	14.7008 / 9.01018	5.2012	0.0195	0.0115	9.1152
Health Club	3.8443 / 2.35619	1.3601	5.0900e- 003	3.0100e- 003	2.3837
High School	6.60744 / 16.9906	2.3377	9.4300e- 003	5.2500e- 003	4.1384
High Turnover (Sit Down Restaurant)	31.5675 / 2.01495	11.1686	0.0409	0.0246	19.5179
Hotel	20.8008 / 2.31119	7.3593	0.0270	0.0162	12.8641
Junior College (2yr)	5.35275 / 8.37225	1.8938	7.3600e- 003	4.2200e- 003	3.3353
Junior High School	7.27272 / 18.7013	2.5731	0.0104	5.7800e- 003	4.5551
Medical Office Building	5.21999 / 0.994284	1.8468	6.8000e- 003	4.0700e- 003	3.2296
Regional Shopping Center	18.1478 / 11.1228	6.4207	0.0240	0.0142	11.2525
Single Family Housing	284.528 / 179.376	100.6663	0.3771	0.2226	176.4369
Supermarket	8.01243 / 0.247807	2.8348	0.0104	6.2400e- 003	4.9532
Total		371.1318	1.3887	0.8206	650.3796

7.2 Water by Land Use**Mitigated**

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	325.053 / 163.94	115.0044	0.4287	0.2541	201.4359
Arena	31.0154 / 1.58377	10.9733	0.0402	0.0242	19.1753
Fast Food Restaurant with Drive Thru	7.28481 / 0.37199	2.5774	9.4300e-003	5.6700e-003	4.5038
General Office Building	279.575 / 137.082	98.9141	0.3685	0.2185	173.2404
Government Office Building	14.7008 / 7.20814	5.2012	0.0194	0.0115	9.1095
Health Club	3.8443 / 1.88495	1.3601	5.0700e-003	3.0000e-003	2.3822
High School	6.60744 / 13.5924	2.3377	9.2500e-003	5.2300e-003	4.1275
High Turnover (Sit Down Restaurant)	31.5675 / 1.61196	11.1686	0.0409	0.0246	19.5166
Hotel	20.8008 / 1.84896	7.3593	0.0270	0.0162	12.8626
Junior College (2yr)	5.35275 / 6.6978	1.8938	7.2700e-003	4.2100e-003	3.3299
Junior High School	7.27272 / 14.961	2.5731	0.0102	5.7600e-003	4.5431
Medical Office Building	5.21999 / 0.795427	1.8468	6.7900e-003	4.0700e-003	3.2290
Regional Shopping Center	18.1478 / 8.89826	6.4207	0.0239	0.0142	11.2454
Single Family Housing	284.528 / 143.501	100.6663	0.3752	0.2224	176.3220
Supermarket	8.01243 / 0.198246	2.8348	0.0104	6.2400e-003	4.9530
Total		371.1318	1.3821	0.8198	649.9760

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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 WasteCategory/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,580.088 2	152.4789	0.0000	6,392.059 4
Unmitigated	2,580.088 2	152.4789	0.0000	6,392.059 4

8.2 Waste by Land UseUnmitigated

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2294.94	465.8521	27.5311	0.0000	1,154.1288
Arena	1.98	0.4019	0.0238	0.0000	0.9958
Fast Food Restaurant with Drive Thru	276.45	56.1169	3.3164	0.0000	139.0271
General Office Building	1462.89	296.9535	17.5495	0.0000	735.6896
Government Office Building	68.82	13.9698	0.8256	0.0000	34.6097
Health Club	370.5	75.2082	4.4447	0.0000	186.3250
High School	273.75	55.5688	3.2840	0.0000	137.6693
High Turnover (Sit Down Restaurant)	1237.6	251.2216	14.8468	0.0000	622.3909
Hotel	448.95	91.1328	5.3858	0.0000	225.7776
Junior College (2yr)	456.25	92.6146	5.4734	0.0000	229.4488
Junior High School	547.5	111.1376	6.5680	0.0000	275.3386
Medical Office Building	449.28	91.1998	5.3898	0.0000	225.9436
Regional Shopping Center	257.25	52.2194	3.0861	0.0000	129.3714
Single Family Housing	4197.6	852.0749	50.3562	0.0000	2,110.9794
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
Total		2,580.0882	152.4788	0.0000	6,392.0593

8.2 Waste by Land Use**Mitigated**

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2294.94	465.8521	27.5311	0.0000	1,154.1288
Arena	1.98	0.4019	0.0238	0.0000	0.9958
Fast Food Restaurant with Drive Thru	276.45	56.1169	3.3164	0.0000	139.0271
General Office Building	1462.89	296.9535	17.5495	0.0000	735.6896
Government Office Building	68.82	13.9698	0.8256	0.0000	34.6097
Health Club	370.5	75.2082	4.4447	0.0000	186.3250
High School	273.75	55.5688	3.2840	0.0000	137.6693
High Turnover (Sit Down Restaurant)	1237.6	251.2216	14.8468	0.0000	622.3909
Hotel	448.95	91.1328	5.3858	0.0000	225.7776
Junior College (2yr)	456.25	92.6146	5.4734	0.0000	229.4488
Junior High School	547.5	111.1376	6.5680	0.0000	275.3386
Medical Office Building	449.28	91.1998	5.3898	0.0000	225.9436
Regional Shopping Center	257.25	52.2194	3.0861	0.0000	129.3714
Single Family Housing	4197.6	852.0749	50.3562	0.0000	2,110.9794
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
Total		2,580.0882	152.4788	0.0000	6,392.0593

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**UWSP - Proposed Project****Sacramento Metropolitan AQMD Air District, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 3.5 Precipitation Freq (Days) 58

Climate Zone 6 Operational Year 2045

Utility Company Sacramento Municipal Utility District

Operational Emissions - Proposed Project

CO2 Intensity 0 CH4 Intensity 0.033 N2O Intensity 0.004

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

(lb/MWahr)

(lb/MWahr)

(lb/MWahr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	4.91	3.69
tblVehicleTrips	ST_TR	10.71	19.54
tblVehicleTrips	ST_TR	616.12	319.28
tblVehicleTrips	ST_TR	2.21	6.75
tblVehicleTrips	ST_TR	0.00	15.40
tblVehicleTrips	ST_TR	20.87	18.04
tblVehicleTrips	ST_TR	0.58	1.38
tblVehicleTrips	ST_TR	122.40	75.90
tblVehicleTrips	ST_TR	8.19	4.20
tblVehicleTrips	ST_TR	0.42	1.92
tblVehicleTrips	ST_TR	0.00	1.44
tblVehicleTrips	ST_TR	8.57	24.62
tblVehicleTrips	ST_TR	46.12	37.49

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

tblVehicleTrips	ST_TR	9.54	6.40
tblVehicleTrips	ST_TR	177.62	66.32
tblVehicleTrips	SU_TR	4.09	3.69
tblVehicleTrips	SU_TR	10.71	19.54
tblVehicleTrips	SU_TR	472.58	319.28
tblVehicleTrips	SU_TR	0.70	6.75
tblVehicleTrips	SU_TR	0.00	15.40
tblVehicleTrips	SU_TR	26.73	18.04
tblVehicleTrips	SU_TR	0.25	1.38
tblVehicleTrips	SU_TR	142.64	75.90
tblVehicleTrips	SU_TR	5.95	4.20
tblVehicleTrips	SU_TR	0.04	1.92
tblVehicleTrips	SU_TR	0.00	1.44
tblVehicleTrips	SU_TR	1.42	24.62
tblVehicleTrips	SU_TR	21.10	37.49
tblVehicleTrips	SU_TR	8.55	6.40
tblVehicleTrips	SU_TR	166.47	66.32
tblVehicleTrips	WD_TR	5.44	3.69
tblVehicleTrips	WD_TR	10.71	19.54
tblVehicleTrips	WD_TR	470.95	319.28
tblVehicleTrips	WD_TR	9.74	6.75
tblVehicleTrips	WD_TR	22.59	15.40
tblVehicleTrips	WD_TR	32.93	18.04
tblVehicleTrips	WD_TR	2.03	1.38
tblVehicleTrips	WD_TR	112.18	75.90
tblVehicleTrips	WD_TR	8.36	4.20
tblVehicleTrips	WD_TR	1.15	1.92
tblVehicleTrips	WD_TR	2.13	1.44
tblVehicleTrips	WD_TR	34.80	24.62

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

tblVehicleTrips	WD_TR	37.75	37.49
tblVehicleTrips	WD_TR	9.44	6.40
tblVehicleTrips	WD_TR	106.78	66.32

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1
Maximum	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1
Maximum	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	181.3189	151.3874	1,521.602 2	3.1164	432.7699	1.4208	434.1907	115.2178	1.3288	116.5466		350,437.2 847	350,437.2 847	20.7844	15.1307	355,465.8 392
Total	632.0561	228.2150	2,332.464 6	3.5795	432.7699	11.0531	443.8230	115.2178	10.9611	126.1788	0.0000	436,273.6 032	436,273.6 032	23.7315	16.6788	441,837.1 827

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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	181.3189	151.3874	1,521.602 2	3.1164	432.7699	1.4208	434.1907	115.2178	1.3288	116.5466		350,437.2 847	350,437.2 847	20.7844	15.1307	355,465.8 392
Total	632.0561	228.2150	2,332.464 6	3.5795	432.7699	11.0531	443.8230	115.2178	10.9611	126.1788	0.0000	436,273.6 032	436,273.6 032	23.7315	16.6788	441,837.1 827

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

Operational Emissions - Proposed Project

3.1 Mitigation Measures Construction

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	181.3189	151.3874	1,521.602 2	3.1164	432.7699	1.4208	434.1907	115.2178	1.3288	116.5466		350,437.2 847	350,437.2 847	20.7844	15.1307	355,465.8 392
Unmitigated	181.3189	151.3874	1,521.602 2	3.1164	432.7699	1.4208	434.1907	115.2178	1.3288	116.5466		350,437.2 847	350,437.2 847	20.7844	15.1307	355,465.8 392

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	18,409.41	18,409.41	18409.41	47,240,553	47,240,553
Arena	1,406.88	1,406.88	1406.88	1,978,797	1,978,797
Fast Food Restaurant with Drive Thru	7,662.72	7,662.72	7662.72	5,293,366	5,293,366
General Office Building	10,617.75	10,617.75	10617.75	21,926,757	21,926,757
Government Office Building	1,139.60	1,139.60	1139.60	1,638,569	1,638,569
Health Club	1,172.60	1,172.60	1172.60	1,619,497	1,619,497
High School	2,070.00	2,070.00	2070.00	5,391,592	5,391,592
High Turnover (Sit Down Restaurant)	7,893.60	7,893.60	7893.60	7,014,228	7,014,228
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,648,969
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,648,969
Junior College (2yr)	4,800.00	4,800.00	4800.00	8,838,757	8,838,757
Junior High School	4,320.00	4,320.00	4320.00	9,509,003	9,509,003
Medical Office Building	1,024.19	1,024.19	1024.19	1,706,100	1,706,100
Regional Shopping Center	9,185.05	9,185.05	9185.05	12,834,316	12,834,316

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	27,948.80	27,948.80	27,948.80	71,719,667	71,719,667
Supermarket	4,310.80	4,310.80	4,310.80	3,709,662	3,709,662
Total	105,405.40	105,405.40	105,405.40	205,718,801	205,718,801

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663
NaturalGas Unmitigated	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663

5.2 Energy by Land Use - NaturalGas

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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					
Apartments Mid Rise	128706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7016.55	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11645.6	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55938.5	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2631.56	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6334.38	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8243.15	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50464.2	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62370	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14609.9	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1479.36	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3604.52	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4494.79	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

	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					
Apartments Mid Rise	128.706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7.01655	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11.6456	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55.9385	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2.63156	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6.33438	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8.24315	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50.4642	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62.37	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14.805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14.6099	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1.47936	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3.60452	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283.063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4.49479	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

6.0 Area Detail

Operational Emissions - Proposed Project

6.1 Mitigation Measures Area

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Unmitigated	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

UWSP - Proposed Project
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization Urban Wind Speed (m/s) 3.5 Precipitation Freq (Days) 58

Climate Zone 6 Operational Year 2045

Utility Company Sacramento Municipal Utility District

Operational Emissions - Proposed Project

CO2 Intensity 0 CH4 Intensity 0.033 N2O Intensity 0.004

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

(lb/MWahr)

(lb/MWahr)

(lb/MWahr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	4.91	3.69
tblVehicleTrips	ST_TR	10.71	19.54
tblVehicleTrips	ST_TR	616.12	319.28
tblVehicleTrips	ST_TR	2.21	6.75
tblVehicleTrips	ST_TR	0.00	15.40
tblVehicleTrips	ST_TR	20.87	18.04
tblVehicleTrips	ST_TR	0.58	1.38
tblVehicleTrips	ST_TR	122.40	75.90
tblVehicleTrips	ST_TR	8.19	4.20
tblVehicleTrips	ST_TR	0.42	1.92
tblVehicleTrips	ST_TR	0.00	1.44
tblVehicleTrips	ST_TR	8.57	24.62
tblVehicleTrips	ST_TR	46.12	37.49

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

tblVehicleTrips	ST_TR	9.54	6.40
tblVehicleTrips	ST_TR	177.62	66.32
tblVehicleTrips	SU_TR	4.09	3.69
tblVehicleTrips	SU_TR	10.71	19.54
tblVehicleTrips	SU_TR	472.58	319.28
tblVehicleTrips	SU_TR	0.70	6.75
tblVehicleTrips	SU_TR	0.00	15.40
tblVehicleTrips	SU_TR	26.73	18.04
tblVehicleTrips	SU_TR	0.25	1.38
tblVehicleTrips	SU_TR	142.64	75.90
tblVehicleTrips	SU_TR	5.95	4.20
tblVehicleTrips	SU_TR	0.04	1.92
tblVehicleTrips	SU_TR	0.00	1.44
tblVehicleTrips	SU_TR	1.42	24.62
tblVehicleTrips	SU_TR	21.10	37.49
tblVehicleTrips	SU_TR	8.55	6.40
tblVehicleTrips	SU_TR	166.47	66.32
tblVehicleTrips	WD_TR	5.44	3.69
tblVehicleTrips	WD_TR	10.71	19.54
tblVehicleTrips	WD_TR	470.95	319.28
tblVehicleTrips	WD_TR	9.74	6.75
tblVehicleTrips	WD_TR	22.59	15.40
tblVehicleTrips	WD_TR	32.93	18.04
tblVehicleTrips	WD_TR	2.03	1.38
tblVehicleTrips	WD_TR	112.18	75.90
tblVehicleTrips	WD_TR	8.36	4.20
tblVehicleTrips	WD_TR	1.15	1.92
tblVehicleTrips	WD_TR	2.13	1.44
tblVehicleTrips	WD_TR	34.80	24.62

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

tblVehicleTrips	WD_TR	37.75	37.49
tblVehicleTrips	WD_TR	9.44	6.40
tblVehicleTrips	WD_TR	106.78	66.32

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4
Maximum	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4
Maximum	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	134.8725	175.7428	1,555.806 3	2.8464	432.7699	1.4222	434.1921	115.2178	1.3301	116.5478		319,788.3 050	319,788.3 050	22.8469	16.5270	325,284.5 339
Total	585.6097	252.5705	2,366.668 7	3.3095	432.7699	11.0544	443.8243	115.2178	10.9624	126.1801	0.0000	405,624.6 235	405,624.6 235	25.7940	18.0752	411,655.8 774

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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	134.8725	175.7428	1,555.806 3	2.8464	432.7699	1.4222	434.1921	115.2178	1.3301	116.5478		319,788.3 050	319,788.3 050	22.8469	16.5270	325,284.5 339
Total	585.6097	252.5705	2,366.668 7	3.3095	432.7699	11.0544	443.8243	115.2178	10.9624	126.1801	0.0000	405,624.6 235	405,624.6 235	25.7940	18.0752	411,655.8 774

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

Operational Emissions - Proposed Project

3.1 Mitigation Measures Construction

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	134.8725	175.7428	1,555.8063	2.8464	432.7699	1.4222	434.1921	115.2178	1.3301	116.5478		319,788.3050	319,788.3050	22.8469	16.5270	325,284.5339
Unmitigated	134.8725	175.7428	1,555.8063	2.8464	432.7699	1.4222	434.1921	115.2178	1.3301	116.5478		319,788.3050	319,788.3050	22.8469	16.5270	325,284.5339

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	18,409.41	18,409.41	18409.41	47,240,553	47,240,553
Arena	1,406.88	1,406.88	1406.88	1,978,797	1,978,797
Fast Food Restaurant with Drive Thru	7,662.72	7,662.72	7662.72	5,293,366	5,293,366
General Office Building	10,617.75	10,617.75	10617.75	21,926,757	21,926,757
Government Office Building	1,139.60	1,139.60	1139.60	1,638,569	1,638,569
Health Club	1,172.60	1,172.60	1172.60	1,619,497	1,619,497
High School	2,070.00	2,070.00	2070.00	5,391,592	5,391,592
High Turnover (Sit Down Restaurant)	7,893.60	7,893.60	7893.60	7,014,228	7,014,228
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,648,969
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,648,969
Junior College (2yr)	4,800.00	4,800.00	4800.00	8,838,757	8,838,757
Junior High School	4,320.00	4,320.00	4320.00	9,509,003	9,509,003
Medical Office Building	1,024.19	1,024.19	1024.19	1,706,100	1,706,100
Regional Shopping Center	9,185.05	9,185.05	9185.05	12,834,316	12,834,316

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	27,948.80	27,948.80	27,948.80	71,719,667	71,719,667
Supermarket	4,310.80	4,310.80	4,310.80	3,709,662	3,709,662
Total	105,405.40	105,405.40	105,405.40	205,718,801	205,718,801

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663
NaturalGas Unmitigated	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663

5.2 Energy by Land Use - NaturalGas

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

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					
Apartments Mid Rise	128706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7016.55	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11645.6	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55938.5	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2631.56	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6334.38	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8243.15	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50464.2	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62370	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14609.9	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1479.36	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3604.52	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4494.79	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

Operational Emissions - Proposed Project

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

	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					
Apartments Mid Rise	128.706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7.01655	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11.6456	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55.9385	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2.63156	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6.33438	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8.24315	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50.4642	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62.37	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14.805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14.6099	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1.47936	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3.60452	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283.063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4.49479	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

6.0 Area Detail

Operational Emissions - Proposed Project

6.1 Mitigation Measures Area

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Unmitigated	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Proposed Project**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Sacramento Metropolitan AQMD Air District, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Rubber Tired Dozers	1.03000E-003	1.06900E-002	4.66000E-003	1.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.12536E+000	1.12536E+000	3.60000E-004	0.00000E+000	1.13446E+000
Tractors/Loaders/Backhoes	3.00000E-004	3.07000E-003	4.46000E-003	1.00000E-005	1.50000E-004	1.40000E-004	0.00000E+000	5.47170E-001	5.47170E-001	1.80000E-004	0.00000E+000	5.51600E-001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Rubber Tired Dozers	1.03000E-003	1.06900E-002	4.66000E-003	1.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.12536E+000	1.12536E+000	3.60000E-004	0.00000E+000	1.13446E+000
Tractors/Loaders/Backhoes	3.00000E-004	3.07000E-003	4.46000E-003	1.00000E-005	1.50000E-004	1.40000E-004	0.00000E+000	5.47170E-001	5.47170E-001	1.80000E-004	0.00000E+000	5.51590E-001

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.81291E-005

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction		
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00	
No	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Site Preparation	Fugitive Dust	0.01	0.01	0.01	0.01	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

UWSP - Proposed Project**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.10	0.06
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	5.30		
No	Land Use	Increase Transit Accessibility	0.25	0.00		

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

No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off- Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program	5.40		Voluntary	
No	Commute	Transit Subsidy	0.00	0.00		
No	Commute	Implement Employee Parking "Cash Out"	4.50	0.00		
No	Commute	Workplace Parking Charge	0.00	0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00	0.00	0.00	0.00

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

No	Commute	Market Commute Trip Reduction Option	0.00	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00	0.00	2.00	
No	Commute	Provide Ride Sharing Program	10.00	0.00		
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00	0.00		
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

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

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy		20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	

UWSP - Proposed Project

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

No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Appendix B

GDF Calculations

GDF 1 Throughput	23,600,000.00	gallons/yr

Standard Emission Rates (see CAPCOA Guidance pg A-5)			Benzene Components		Densities	
Loading	0.084	lbs total VOC/1,000 gallons	Vapor	0.3 %	Vapor	0.105 lbs/ft^3
Breathing	0.025	lbs total VOC/1,000 gallons	Liquid	1 %	Liquid	6 lbs/gallon
Refueling	0.74	lbs total VOC/1,000 gallons				
Spillage	0.42	lbs total VOC/1,000 gallons				

Loading			
Throughput (gallons/year)	Emission Factor (lbs/gallon)	Whole Gasoline Emission Rate (grams/second)	Benzene Emission Rate (grams/second)
23600000	0.000084	0.028539117	0.000085617352

Breathing			
Throughput (gallons/year)	Emission Factor (lbs/gallon)	Whole Gasoline Emission Rate (grams/second)	Benzene Emission Rate (grams/second)
23600000	0.000025	0.008493785	0.000025481355

Refueling			
Throughput (gallons/year)	Emission Factor (lbs/gallon)	Whole Gasoline Emission Rate (grams/second)	Benzene Emission Rate (grams/second)
23600000	0.00074	0.251416032	0.000754248097

Spillage			
Throughput (gallons/year)	Emission Factor (lbs/gallon)	Whole Gasoline Emission Rate (grams/second)	Benzene Emission Rate (grams/second)
23600000	0.00042	0.142695586	0.001426955860

Loading			
Mass Emission Rate (grams/second)	Area of Stack (meters)	Density of Gas (grams/meter^2)	Exit Velocity (meters/second)
0.028539117	0.00810732	1683.452933	0.00209104

Breathing			
Mass Emission Rate (grams/second)	Area of Stack (meters)	Density of Gas (grams/meter^2)	Exit Velocity (meters/second)
0.008493785	0.00810732	1683.452933	0.000622333

GDF 2 Throughput	15,600,000.00	gallons/yr

Standard Emission Rates (see CAPCOA Guidance pg A-5)			Benzene Components		Densities	
Loading	0.084	lbs total VOC/1,000 gallons	Vapor	0.3 %	Vapor	0.105 lbs/ft^3
Breathing	0.025	lbs total VOC/1,000 gallons	Liquid	1 %	Liquid	6 lbs/gallon
Refueling	0.74	lbs total VOC/1,000 gallons				
Spillage	0.42	lbs total VOC/1,000 gallons				

Loading			
Throughput (gallons/year)	Emission Factor (lbs/gallon)	Whole Gasoline Emission Rate (grams/second)	Benzene Emission Rate (grams/second)
15600000	0.000084	0.01886484	0.000056594521

Breathing			
Throughput (gallons/year)	Emission Factor (lbs/gallon)	Whole Gasoline Emission Rate (grams/second)	Benzene Emission Rate (grams/second)
15600000	0.000025	0.005614536	0.000016843607

Refueling			
Throughput (gallons/year)	Emission Factor (lbs/gallon)	Whole Gasoline Emission Rate (grams/second)	Benzene Emission Rate (grams/second)
15600000	0.00074	0.166190259	0.000498570776

Spillage			
Throughput (gallons/year)	Emission Factor (lbs/gallon)	Whole Gasoline Emission Rate (grams/second)	Benzene Emission Rate (grams/second)
15600000	0.00042	0.094324201	0.000943242009

Loading			
Mass Emission Rate (grams/second)	Area of Stack (meters)	Density of Gas (grams/meter^2)	Exit Velocity (meters/second)
0.01886484	0.00810732	1683.452933	0.001382213

Breathing			
Mass Emission Rate (grams/second)	Area of Stack (meters)	Density of Gas (grams/meter^2)	Exit Velocity (meters/second)
0.005614536	0.00810732	1683.452933	0.000411373

Appendix C

AERMOD and HARP Modeling Results

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	UWSP Construction HRA
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	I:\Projects\Active\Sacramento County\Upper Westside\HRA\Construction HRA\April 2023 Remodel\AERMOD\SACINT~1.SFC
ME	PROFFILE	Profile met file	I:\Projects\Active\Sacramento County\Upper Westside\HRA\Construction HRA\April 2023 Remodel\AERMOD\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU	DAYTABLE	Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
7NL8T001	VOLUME		626470.7	4273814.1	0	0.00002593211623	(g/s)	5
7NL8T002	VOLUME		626534.3	4273814.1	0	0.00002593211623	(g/s)	5
7NL8T003	VOLUME		626597.9	4273814.1	0	0.00002593211623	(g/s)	5
7NL8T004	VOLUME		626661.5	4273814.1	0	0.00002593211623	(g/s)	5
7NL8T005	VOLUME		626407.1	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T006	VOLUME		626470.7	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T007	VOLUME		626534.3	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T008	VOLUME		626597.9	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T009	VOLUME		626661.5	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T00A	VOLUME		626343.5	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00B	VOLUME		626407.1	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00C	VOLUME		626470.7	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00D	VOLUME		626534.3	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00E	VOLUME		626597.9	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00F	VOLUME		626661.5	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00G	VOLUME		626725.1	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00H	VOLUME		626279.8	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00I	VOLUME		626343.5	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00J	VOLUME		626407.1	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00K	VOLUME		626470.7	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00L	VOLUME		626534.3	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00M	VOLUME		626597.9	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00N	VOLUME		626661.5	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00O	VOLUME		626725.1	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00P	VOLUME		626216.2	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00Q	VOLUME		626279.8	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00R	VOLUME		626343.5	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00S	VOLUME		626407.1	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00T	VOLUME		626470.7	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00U	VOLUME		626534.3	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00V	VOLUME		626597.9	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00W	VOLUME		626661.5	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00X	VOLUME		626725.1	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00Y	VOLUME		626788.8	4274068.6	0	0.00002593211623	(g/s)	5

7NL8T00Z	VOLUME		626152.6	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T010	VOLUME		626216.2	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T011	VOLUME		626279.8	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T012	VOLUME		626343.5	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T013	VOLUME		626407.1	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T014	VOLUME		626470.7	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T015	VOLUME		626534.3	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T016	VOLUME		626597.9	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T017	VOLUME		626661.5	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T018	VOLUME		626725.1	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T019	VOLUME		626788.8	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T01A	VOLUME		626025.4	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01B	VOLUME		626089.0	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01C	VOLUME		626152.6	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01D	VOLUME		626216.2	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01E	VOLUME		626279.8	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01F	VOLUME		626343.5	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01G	VOLUME		626407.1	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01H	VOLUME		626470.7	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01I	VOLUME		626534.3	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01J	VOLUME		626597.9	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01K	VOLUME		626661.5	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01L	VOLUME		626725.1	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01M	VOLUME		626788.8	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01N	VOLUME		626852.4	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01O	VOLUME		626025.4	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01P	VOLUME		626089.0	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01Q	VOLUME		626152.6	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01R	VOLUME		626216.2	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01S	VOLUME		626279.8	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01T	VOLUME		626343.5	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01U	VOLUME		626407.1	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01V	VOLUME		626470.7	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01W	VOLUME		626534.3	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01X	VOLUME		626597.9	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01Y	VOLUME		626661.5	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01Z	VOLUME		626725.1	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T020	VOLUME		626788.8	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T021	VOLUME		626852.4	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T022	VOLUME		626025.4	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T023	VOLUME		626089.0	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T024	VOLUME		626152.6	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T025	VOLUME		626216.2	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T026	VOLUME		626279.8	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T027	VOLUME		626343.5	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T028	VOLUME		626407.1	4274323.0	0	0.00002593211623	(g/s)	5

7NL8T029	VOLUME		626470.7	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02A	VOLUME		626534.3	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02B	VOLUME		626597.9	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02C	VOLUME		626661.5	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02D	VOLUME		626725.1	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02E	VOLUME		626788.8	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02F	VOLUME		626852.4	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02G	VOLUME		626916.0	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02H	VOLUME		625961.8	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02I	VOLUME		626025.4	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02J	VOLUME		626089.0	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02K	VOLUME		626152.6	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02L	VOLUME		626216.2	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02M	VOLUME		626279.8	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02N	VOLUME		626343.5	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02O	VOLUME		626407.1	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02P	VOLUME		626470.7	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02Q	VOLUME		626534.3	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02R	VOLUME		626597.9	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02S	VOLUME		626661.5	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02T	VOLUME		626725.1	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02U	VOLUME		626788.8	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02V	VOLUME		626852.4	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02W	VOLUME		626916.0	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02X	VOLUME		626979.6	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02Y	VOLUME		625961.8	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T02Z	VOLUME		626025.4	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T030	VOLUME		626089.0	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T031	VOLUME		626152.6	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T032	VOLUME		626216.2	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T033	VOLUME		626279.8	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T034	VOLUME		626343.5	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T035	VOLUME		626407.1	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T036	VOLUME		626470.7	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T037	VOLUME		626534.3	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T038	VOLUME		626597.9	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T039	VOLUME		626661.5	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03A	VOLUME		626725.1	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03B	VOLUME		626788.8	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03C	VOLUME		626852.4	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03D	VOLUME		626916.0	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03E	VOLUME		626979.6	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03F	VOLUME		625898.1	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03G	VOLUME		625961.8	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03H	VOLUME		626025.4	4274513.9	0	0.00002593211623	(g/s)	5

7NL8T03I	VOLUME		626089.0	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03J	VOLUME		626152.6	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03K	VOLUME		626216.2	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03L	VOLUME		626279.8	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03M	VOLUME		626343.5	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03N	VOLUME		626407.1	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03O	VOLUME		626470.7	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03P	VOLUME		626534.3	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03Q	VOLUME		626597.9	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03R	VOLUME		626661.5	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03S	VOLUME		626725.1	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03T	VOLUME		626788.8	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03U	VOLUME		626852.4	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03V	VOLUME		626916.0	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03W	VOLUME		626979.6	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03X	VOLUME		627043.2	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03Y	VOLUME		625898.1	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T03Z	VOLUME		625961.8	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T040	VOLUME		626025.4	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T041	VOLUME		626089.0	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T042	VOLUME		626152.6	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T043	VOLUME		626216.2	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T044	VOLUME		626279.8	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T045	VOLUME		626343.5	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T046	VOLUME		626407.1	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T047	VOLUME		626470.7	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T048	VOLUME		626534.3	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T049	VOLUME		626597.9	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04A	VOLUME		626661.5	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04B	VOLUME		626725.1	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04C	VOLUME		626788.8	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04D	VOLUME		626852.4	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04E	VOLUME		626916.0	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04F	VOLUME		626979.6	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04G	VOLUME		627043.2	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04H	VOLUME		625834.5	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04I	VOLUME		625898.1	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04J	VOLUME		625961.8	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04K	VOLUME		626025.4	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04L	VOLUME		626089.0	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04M	VOLUME		626152.6	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04N	VOLUME		626216.2	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04O	VOLUME		626279.8	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04P	VOLUME		626343.5	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04Q	VOLUME		626407.1	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04R	VOLUME		626470.7	4274641.1	0	0.00002593211623	(g/s)	5

7NL8T04S	VOLUME		626534.3	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04T	VOLUME		626597.9	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04U	VOLUME		626661.5	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04V	VOLUME		626725.1	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04W	VOLUME		626788.8	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04X	VOLUME		626852.4	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04Y	VOLUME		626916.0	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04Z	VOLUME		626979.6	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T050	VOLUME		627043.2	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T051	VOLUME		627106.8	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T052	VOLUME		625834.5	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T053	VOLUME		625898.1	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T054	VOLUME		625961.8	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T055	VOLUME		626025.4	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T056	VOLUME		626089.0	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T057	VOLUME		626152.6	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T058	VOLUME		626216.2	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T059	VOLUME		626279.8	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05A	VOLUME		626343.5	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05B	VOLUME		626407.1	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05C	VOLUME		626470.7	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05D	VOLUME		626534.3	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05E	VOLUME		626597.9	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05F	VOLUME		626661.5	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05G	VOLUME		626725.1	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05H	VOLUME		626788.8	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05I	VOLUME		626852.4	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05J	VOLUME		626916.0	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05K	VOLUME		626979.6	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05L	VOLUME		627043.2	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05M	VOLUME		627106.8	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05N	VOLUME		625834.5	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05O	VOLUME		625898.1	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05P	VOLUME		625961.8	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05Q	VOLUME		626025.4	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05R	VOLUME		626089.0	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05S	VOLUME		626152.6	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05T	VOLUME		626216.2	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05U	VOLUME		626279.8	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05V	VOLUME		626343.5	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05W	VOLUME		626407.1	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05X	VOLUME		626470.7	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05Y	VOLUME		626534.3	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05Z	VOLUME		626597.9	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T060	VOLUME		626661.5	4274768.3	0	0.00002593211623	(g/s)	5

7NL8T061	VOLUME		626725.1	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T062	VOLUME		626788.8	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T063	VOLUME		626852.4	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T064	VOLUME		626916.0	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T065	VOLUME		626979.6	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T066	VOLUME		627043.2	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T067	VOLUME		627106.8	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T068	VOLUME		627170.4	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T069	VOLUME		625770.9	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06A	VOLUME		625834.5	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06B	VOLUME		625898.1	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06C	VOLUME		625961.8	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06D	VOLUME		626025.4	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06E	VOLUME		626089.0	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06F	VOLUME		626152.6	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06G	VOLUME		626216.2	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06H	VOLUME		626279.8	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06I	VOLUME		626343.5	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06J	VOLUME		626407.1	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06K	VOLUME		626470.7	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06L	VOLUME		626534.3	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06M	VOLUME		626597.9	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06N	VOLUME		626661.5	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06O	VOLUME		626725.1	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06P	VOLUME		626788.8	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06Q	VOLUME		626852.4	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06R	VOLUME		626916.0	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06S	VOLUME		626979.6	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06T	VOLUME		627043.2	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06U	VOLUME		627106.8	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06V	VOLUME		627170.4	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06W	VOLUME		625770.9	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T06X	VOLUME		625834.5	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T06Y	VOLUME		625898.1	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T06Z	VOLUME		625961.8	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T070	VOLUME		626025.4	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T071	VOLUME		626089.0	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T072	VOLUME		626152.6	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T073	VOLUME		626216.2	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T074	VOLUME		626279.8	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T075	VOLUME		626343.5	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T076	VOLUME		626407.1	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T077	VOLUME		626470.7	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T078	VOLUME		626534.3	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T079	VOLUME		626597.9	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07A	VOLUME		626661.5	4274895.6	0	0.00002593211623	(g/s)	5

7NL8T07B	VOLUME		626725.1	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07C	VOLUME		626788.8	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07D	VOLUME		626852.4	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07E	VOLUME		626916.0	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07F	VOLUME		626979.6	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07G	VOLUME		627043.2	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07H	VOLUME		627106.8	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07I	VOLUME		627170.4	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07J	VOLUME		625770.9	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07K	VOLUME		625834.5	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07L	VOLUME		625898.1	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07M	VOLUME		625961.8	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07N	VOLUME		626025.4	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07O	VOLUME		626089.0	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07P	VOLUME		626152.6	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07Q	VOLUME		626216.2	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07R	VOLUME		626279.8	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07S	VOLUME		626343.5	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07T	VOLUME		626407.1	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07U	VOLUME		626470.7	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07V	VOLUME		626534.3	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07W	VOLUME		626597.9	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07X	VOLUME		626661.5	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07Y	VOLUME		626725.1	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07Z	VOLUME		626788.8	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T080	VOLUME		626852.4	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T081	VOLUME		626916.0	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T082	VOLUME		626979.6	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T083	VOLUME		627043.2	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T084	VOLUME		627106.8	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T085	VOLUME		627170.4	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T086	VOLUME		625770.9	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T087	VOLUME		625834.5	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T088	VOLUME		625898.1	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T089	VOLUME		625961.8	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08A	VOLUME		626025.4	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08B	VOLUME		626089.0	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08C	VOLUME		626152.6	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08D	VOLUME		626216.2	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08E	VOLUME		626279.8	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08F	VOLUME		626343.5	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08G	VOLUME		626407.1	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08H	VOLUME		626470.7	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08I	VOLUME		626534.3	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08J	VOLUME		626597.9	4275022.8	0	0.00002593211623	(g/s)	5

7NL8T08K	VOLUME		626661.5	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08L	VOLUME		626725.1	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08M	VOLUME		626788.8	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08N	VOLUME		626852.4	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08O	VOLUME		626916.0	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08P	VOLUME		626979.6	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08Q	VOLUME		627043.2	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08R	VOLUME		627106.8	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08S	VOLUME		627170.4	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08T	VOLUME		625770.9	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08U	VOLUME		625834.5	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08V	VOLUME		625898.1	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08W	VOLUME		625961.8	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08X	VOLUME		626025.4	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08Y	VOLUME		626089.0	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08Z	VOLUME		626152.6	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T090	VOLUME		626216.2	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T091	VOLUME		626279.8	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T092	VOLUME		626343.5	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T093	VOLUME		626407.1	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T094	VOLUME		626470.7	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T095	VOLUME		626534.3	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T096	VOLUME		626597.9	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T097	VOLUME		626661.5	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T098	VOLUME		626725.1	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T099	VOLUME		626788.8	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09A	VOLUME		626852.4	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09B	VOLUME		626916.0	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09C	VOLUME		626979.6	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09D	VOLUME		627043.2	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09E	VOLUME		627106.8	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09F	VOLUME		627170.4	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09G	VOLUME		625770.9	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09H	VOLUME		625834.5	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09I	VOLUME		625898.1	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09J	VOLUME		625961.8	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09K	VOLUME		626025.4	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09L	VOLUME		626089.0	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09M	VOLUME		626152.6	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09N	VOLUME		626216.2	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09O	VOLUME		626279.8	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09P	VOLUME		626343.5	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09Q	VOLUME		626407.1	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09R	VOLUME		626470.7	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09S	VOLUME		626534.3	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09T	VOLUME		626597.9	4275150.0	0	0.00002593211623	(g/s)	5

7NL8T09U	VOLUME		626661.5	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09V	VOLUME		626725.1	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09W	VOLUME		626788.8	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09X	VOLUME		626852.4	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09Y	VOLUME		626916.0	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09Z	VOLUME		626979.6	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T0A0	VOLUME		627043.2	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T0A1	VOLUME		627106.8	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T0A2	VOLUME		627170.4	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T0A3	VOLUME		625770.9	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A4	VOLUME		625834.5	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A5	VOLUME		625898.1	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A6	VOLUME		625961.8	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A7	VOLUME		626025.4	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A8	VOLUME		626089.0	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A9	VOLUME		626152.6	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AA	VOLUME		626216.2	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AB	VOLUME		626279.8	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AC	VOLUME		626343.5	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AD	VOLUME		626407.1	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AE	VOLUME		626470.7	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AF	VOLUME		626534.3	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AG	VOLUME		626597.9	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AH	VOLUME		626661.5	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AI	VOLUME		626725.1	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AJ	VOLUME		626788.8	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AK	VOLUME		626852.4	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AL	VOLUME		626916.0	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AM	VOLUME		626979.6	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AN	VOLUME		627043.2	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AO	VOLUME		627106.8	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AP	VOLUME		627170.4	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AQ	VOLUME		626025.4	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AR	VOLUME		626089.0	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AS	VOLUME		626152.6	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AT	VOLUME		626216.2	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AU	VOLUME		626279.8	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AV	VOLUME		626343.5	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AW	VOLUME		626407.1	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AX	VOLUME		626470.7	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AY	VOLUME		626534.3	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AZ	VOLUME		626597.9	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B0	VOLUME		626661.5	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B1	VOLUME		626725.1	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B2	VOLUME		626788.8	4275277.3	0	0.00002593211623	(g/s)	5

7NL8T0B3	VOLUME		626852.4	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B4	VOLUME		626916.0	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B5	VOLUME		626979.6	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B6	VOLUME		627043.2	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B7	VOLUME		627106.8	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B8	VOLUME		626089.0	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0B9	VOLUME		626152.6	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BA	VOLUME		626216.2	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BB	VOLUME		626279.8	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BC	VOLUME		626343.5	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BD	VOLUME		626407.1	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BE	VOLUME		626470.7	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BF	VOLUME		626534.3	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BG	VOLUME		626597.9	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BH	VOLUME		626661.5	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BI	VOLUME		626725.1	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BJ	VOLUME		626788.8	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BK	VOLUME		626852.4	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BL	VOLUME		626916.0	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BM	VOLUME		626979.6	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BN	VOLUME		627043.2	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BO	VOLUME		627106.8	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BP	VOLUME		626089.0	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BQ	VOLUME		626152.6	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BR	VOLUME		626216.2	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BS	VOLUME		626279.8	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BT	VOLUME		626343.5	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BU	VOLUME		626407.1	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BV	VOLUME		626470.7	4275404.5	0	2.593212E-05	(g/s)	5
7NL8T0BW	VOLUME		626534.3	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BX	VOLUME		626597.9	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BY	VOLUME		626661.5	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BZ	VOLUME		626725.1	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C0	VOLUME		626788.8	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C1	VOLUME		626852.4	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C2	VOLUME		626916.0	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C3	VOLUME		626979.6	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C4	VOLUME		627043.2	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C5	VOLUME		627106.8	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C6	VOLUME		626089.0	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0C7	VOLUME		626152.6	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0C8	VOLUME		626216.2	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0C9	VOLUME		626279.8	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CA	VOLUME		626343.5	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CB	VOLUME		626407.1	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CC	VOLUME		626470.7	4275468.1	0	0.00002593211623	(g/s)	5

Volume Sources

4/7/2023

Source ID / Pollutant ID	Description	UTM		Elev. (m)	Emiss. Rate (g/s)	Release Height (m)	Init. Lat. Dim. (m)	Init. Vert. Dim. (m)
		East (m)	North (m)					
7NL8T001		626470.7	4273814.1	0	0.00002593211623	5	29.59	1
7NL8T002		626534.3	4273814.1	0	0.00002593211623	5	29.59	1
7NL8T003		626597.9	4273814.1	0	0.00002593211623	5	29.59	1
7NL8T004		626661.5	4273814.1	0	0.00002593211623	5	29.59	1
7NL8T005		626407.1	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T006		626470.7	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T007		626534.3	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T008		626597.9	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T009		626661.5	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T00A		626343.5	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00B		626407.1	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00C		626470.7	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00D		626534.3	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00E		626597.9	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00F		626661.5	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00G		626725.1	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00H		626279.8	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00I		626343.5	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00J		626407.1	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00K		626470.7	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00L		626534.3	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00M		626597.9	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00N		626661.5	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00O		626725.1	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00P		626216.2	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00Q		626279.8	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00R		626343.5	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00S		626407.1	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00T		626470.7	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00U		626534.3	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00V		626597.9	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00W		626661.5	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00X		626725.1	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00Y		626788.8	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00Z		626152.6	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T010		626216.2	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T011		626279.8	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T012		626343.5	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T013		626407.1	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T014		626470.7	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T015		626534.3	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T016		626597.9	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T017		626661.5	4274132.2	0	0.00002593211623	5	29.59	1

7NL8T018		626725.1	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T019		626788.8	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T01A		626025.4	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01B		626089.0	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01C		626152.6	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01D		626216.2	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01E		626279.8	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01F		626343.5	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01G		626407.1	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01H		626470.7	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01I		626534.3	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01J		626597.9	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01K		626661.5	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01L		626725.1	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01M		626788.8	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01N		626852.4	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01O		626025.4	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01P		626089.0	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01Q		626152.6	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01R		626216.2	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01S		626279.8	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01T		626343.5	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01U		626407.1	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01V		626470.7	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01W		626534.3	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01X		626597.9	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01Y		626661.5	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01Z		626725.1	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T020		626788.8	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T021		626852.4	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T022		626025.4	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T023		626089.0	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T024		626152.6	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T025		626216.2	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T026		626279.8	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T027		626343.5	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T028		626407.1	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T029		626470.7	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02A		626534.3	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02B		626597.9	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02C		626661.5	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02D		626725.1	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02E		626788.8	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02F		626852.4	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02G		626916.0	4274323.0	0	0.00002593211623	5	29.59	1

7NL8T02H		625961.8	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02I		626025.4	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02J		626089.0	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02K		626152.6	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02L		626216.2	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02M		626279.8	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02N		626343.5	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02O		626407.1	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02P		626470.7	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02Q		626534.3	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02R		626597.9	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02S		626661.5	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02T		626725.1	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02U		626788.8	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02V		626852.4	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02W		626916.0	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02X		626979.6	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02Y		625961.8	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T02Z		626025.4	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T030		626089.0	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T031		626152.6	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T032		626216.2	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T033		626279.8	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T034		626343.5	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T035		626407.1	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T036		626470.7	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T037		626534.3	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T038		626597.9	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T039		626661.5	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03A		626725.1	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03B		626788.8	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03C		626852.4	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03D		626916.0	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03E		626979.6	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03F		625898.1	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03G		625961.8	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03H		626025.4	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03I		626089.0	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03J		626152.6	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03K		626216.2	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03L		626279.8	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03M		626343.5	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03N		626407.1	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03O		626470.7	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03P		626534.3	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03Q		626597.9	4274513.9	0	0.00002593211623	5	29.59	1

7NL8T03R		626661.5	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03S		626725.1	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03T		626788.8	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03U		626852.4	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03V		626916.0	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03W		626979.6	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03X		627043.2	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03Y		625898.1	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T03Z		625961.8	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T040		626025.4	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T041		626089.0	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T042		626152.6	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T043		626216.2	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T044		626279.8	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T045		626343.5	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T046		626407.1	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T047		626470.7	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T048		626534.3	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T049		626597.9	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04A		626661.5	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04B		626725.1	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04C		626788.8	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04D		626852.4	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04E		626916.0	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04F		626979.6	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04G		627043.2	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04H		625834.5	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04I		625898.1	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04J		625961.8	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04K		626025.4	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04L		626089.0	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04M		626152.6	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04N		626216.2	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04O		626279.8	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04P		626343.5	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04Q		626407.1	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04R		626470.7	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04S		626534.3	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04T		626597.9	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04U		626661.5	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04V		626725.1	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04W		626788.8	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04X		626852.4	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04Y		626916.0	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04Z		626979.6	4274641.1	0	0.00002593211623	5	29.59	1

7NL8T050		627043.2	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T051		627106.8	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T052		625834.5	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T053		625898.1	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T054		625961.8	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T055		626025.4	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T056		626089.0	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T057		626152.6	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T058		626216.2	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T059		626279.8	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05A		626343.5	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05B		626407.1	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05C		626470.7	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05D		626534.3	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05E		626597.9	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05F		626661.5	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05G		626725.1	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05H		626788.8	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05I		626852.4	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05J		626916.0	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05K		626979.6	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05L		627043.2	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05M		627106.8	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05N		625834.5	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05O		625898.1	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05P		625961.8	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05Q		626025.4	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05R		626089.0	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05S		626152.6	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05T		626216.2	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05U		626279.8	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05V		626343.5	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05W		626407.1	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05X		626470.7	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05Y		626534.3	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05Z		626597.9	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T060		626661.5	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T061		626725.1	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T062		626788.8	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T063		626852.4	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T064		626916.0	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T065		626979.6	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T066		627043.2	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T067		627106.8	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T068		627170.4	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T069		625770.9	4274832.0	0	0.00002593211623	5	29.59	1

7NL8T06A		625834.5	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06B		625898.1	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06C		625961.8	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06D		626025.4	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06E		626089.0	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06F		626152.6	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06G		626216.2	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06H		626279.8	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06I		626343.5	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06J		626407.1	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06K		626470.7	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06L		626534.3	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06M		626597.9	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06N		626661.5	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06O		626725.1	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06P		626788.8	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06Q		626852.4	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06R		626916.0	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06S		626979.6	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06T		627043.2	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06U		627106.8	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06V		627170.4	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06W		625770.9	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T06X		625834.5	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T06Y		625898.1	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T06Z		625961.8	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T070		626025.4	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T071		626089.0	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T072		626152.6	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T073		626216.2	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T074		626279.8	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T075		626343.5	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T076		626407.1	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T077		626470.7	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T078		626534.3	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T079		626597.9	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07A		626661.5	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07B		626725.1	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07C		626788.8	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07D		626852.4	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07E		626916.0	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07F		626979.6	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07G		627043.2	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07H		627106.8	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07I		627170.4	4274895.6	0	0.00002593211623	5	29.59	1

7NL8T07J		625770.9	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07K		625834.5	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07L		625898.1	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07M		625961.8	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07N		626025.4	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07O		626089.0	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07P		626152.6	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07Q		626216.2	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07R		626279.8	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07S		626343.5	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07T		626407.1	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07U		626470.7	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07V		626534.3	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07W		626597.9	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07X		626661.5	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07Y		626725.1	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07Z		626788.8	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T080		626852.4	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T081		626916.0	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T082		626979.6	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T083		627043.2	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T084		627106.8	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T085		627170.4	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T086		625770.9	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T087		625834.5	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T088		625898.1	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T089		625961.8	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08A		626025.4	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08B		626089.0	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08C		626152.6	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08D		626216.2	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08E		626279.8	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08F		626343.5	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08G		626407.1	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08H		626470.7	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08I		626534.3	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08J		626597.9	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08K		626661.5	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08L		626725.1	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08M		626788.8	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08N		626852.4	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08O		626916.0	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08P		626979.6	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08Q		627043.2	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08R		627106.8	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08S		627170.4	4275022.8	0	0.00002593211623	5	29.59	1

7NL8T08T		625770.9	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08U		625834.5	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08V		625898.1	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08W		625961.8	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08X		626025.4	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08Y		626089.0	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08Z		626152.6	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T090		626216.2	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T091		626279.8	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T092		626343.5	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T093		626407.1	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T094		626470.7	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T095		626534.3	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T096		626597.9	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T097		626661.5	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T098		626725.1	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T099		626788.8	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09A		626852.4	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09B		626916.0	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09C		626979.6	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09D		627043.2	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09E		627106.8	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09F		627170.4	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09G		625770.9	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09H		625834.5	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09I		625898.1	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09J		625961.8	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09K		626025.4	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09L		626089.0	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09M		626152.6	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09N		626216.2	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09O		626279.8	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09P		626343.5	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09Q		626407.1	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09R		626470.7	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09S		626534.3	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09T		626597.9	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09U		626661.5	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09V		626725.1	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09W		626788.8	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09X		626852.4	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09Y		626916.0	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09Z		626979.6	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T0A0		627043.2	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T0A1		627106.8	4275150.0	0	0.00002593211623	5	29.59	1

7NL8T0A2		627170.4	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T0A3		625770.9	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A4		625834.5	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A5		625898.1	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A6		625961.8	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A7		626025.4	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A8		626089.0	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A9		626152.6	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AA		626216.2	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AB		626279.8	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AC		626343.5	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AD		626407.1	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AE		626470.7	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AF		626534.3	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AG		626597.9	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AH		626661.5	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AI		626725.1	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AJ		626788.8	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AK		626852.4	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AL		626916.0	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AM		626979.6	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AN		627043.2	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AO		627106.8	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AP		627170.4	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AQ		626025.4	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AR		626089.0	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AS		626152.6	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AT		626216.2	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AU		626279.8	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AV		626343.5	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AW		626407.1	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AX		626470.7	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AY		626534.3	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AZ		626597.9	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B0		626661.5	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B1		626725.1	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B2		626788.8	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B3		626852.4	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B4		626916.0	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B5		626979.6	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B6		627043.2	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B7		627106.8	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B8		626089.0	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0B9		626152.6	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BA		626216.2	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BB		626279.8	4275340.9	0	0.00002593211623	5	29.59	1

7NL8T0BC		626343.5	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BD		626407.1	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BE		626470.7	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BF		626534.3	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BG		626597.9	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BH		626661.5	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BI		626725.1	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BJ		626788.8	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BK		626852.4	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BL		626916.0	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BM		626979.6	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BN		627043.2	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BO		627106.8	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BP		626089.0	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BQ		626152.6	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BR		626216.2	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BS		626279.8	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BT		626343.5	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BU		626407.1	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BV		626470.7	4275404.5	0	2.593212E-05	5	29.59	1
7NL8T0BW		626534.3	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BX		626597.9	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BY		626661.5	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BZ		626725.1	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C0		626788.8	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C1		626852.4	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C2		626916.0	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C3		626979.6	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C4		627043.2	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C5		627106.8	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C6		626089.0	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0C7		626152.6	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0C8		626216.2	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0C9		626279.8	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CA		626343.5	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CB		626407.1	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CC		626470.7	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CD		626534.3	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CE		626597.9	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CF		626661.5	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CG		626725.1	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CH		626788.8	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CI		626852.4	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CJ		626916.0	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CK		626979.6	4275468.1	0	0.00002593211623	5	29.59	1

7NL8T0CL		627043.2	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CM		627106.8	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CN		626152.6	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CO		626216.2	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CP		626279.8	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CQ		626343.5	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CR		626407.1	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CS		626470.7	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CT		626534.3	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CU		626597.9	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CV		626661.5	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CW		626725.1	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CX		626788.8	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CY		626852.4	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CZ		626916.0	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0D0		626979.6	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0D1		627043.2	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0D2		627106.8	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0D3		626152.6	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D4		626216.2	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D5		626279.8	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D6		626343.5	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D7		626407.1	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D8		626470.7	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D9		626534.3	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DA		626597.9	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DB		626661.5	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DC		626725.1	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DD		626788.8	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DE		626852.4	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DF		626916.0	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DG		626979.6	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DH		627043.2	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DI		627106.8	4275595.3	0	0.00002593211623	5	29.59	1

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
			East (m)	North (m)					
ALL	1ST	0.01272	625918.60	4275280.50	0.00	0.00	1.80	DC	
	2ND	0.01215	625888.60	4275280.50	0.00	0.00	1.80	DC	
	3RD	0.01210	627178.60	4275280.50	0.00	0.00	1.80	DC	
	4TH	0.01171	626518.60	4275670.50	0.00	0.00	1.80	DC	
	5TH	0.01171	626488.60	4275670.50	0.00	0.00	1.80	DC	
	6TH	0.01170	626458.60	4275670.50	0.00	0.00	1.80	DC	
	7TH	0.01170	626548.60	4275670.50	0.00	0.00	1.80	DC	
	8TH	0.01168	625948.60	4275310.50	0.00	0.00	1.80	DC	
	9TH	0.01168	626578.60	4275670.50	0.00	0.00	1.80	DC	
	10TH	0.01167	626428.60	4275670.50	0.00	0.00	1.80	DC	

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	0.76669	ug/m**3	15011709	627178.60	4275280.50	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H
WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H

WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

www.breeze-software.com

*HARP - HRACalc v21081 4/7/2023 9:51:08 AM - Cancer Risk - Input File: C:\Users\jfahdney\Desktop\H/

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS
1			9901	DieselExhP	0.01272	7.32E-06	8YrCancer	*

ARP\Upper Westside_HRAInput.hra

[illegible]

PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v21081 4/7/2023 9:51:08 AM - Chronic Risk - Input File: C:\Users\jfahrne\ Desktop\H

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExp	0.01272	NonCancer	0.00E+00	0.00E+00

ARP\Upper Westside_HRAInput.hra

IMMUN	KIDNEY	GILV	REPRO/DE\RESP	SKIN	EYE	BONE/TEETENDO		
0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MILK_DC	WATER_DC
0.00E+00	0.00E+00	0.00E+00	*	1.27E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v21081 4/7/2023 9:51:08 AM - Acute Risk - Input File: C:\Users\jfahdney\Desktop\HAI

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExp	0.76669	NonCancer	0.00E+00	0.00E+00

RP\Upper Westside_HRAInput.hra

[illegible]

BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	UWSP Construction HRA
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	I:\Projects\Active\Sacramento County\Upper Westside\HRA\Construction HRA\April 2023 Remodel\AERMOD\SACINT~1.SFC
ME	PROFFILE	Profile met file	I:\Projects\Active\Sacramento County\Upper Westside\HRA\Construction HRA\April 2023 Remodel\AERMOD\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

On-Site Receptor

OU	DAYTABLE	Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
7NL8T001	VOLUME		626470.7	4273814.1	0	0.00002593211623	(g/s)	5
7NL8T002	VOLUME		626534.3	4273814.1	0	0.00002593211623	(g/s)	5
7NL8T003	VOLUME		626597.9	4273814.1	0	0.00002593211623	(g/s)	5
7NL8T004	VOLUME		626661.5	4273814.1	0	0.00002593211623	(g/s)	5
7NL8T005	VOLUME		626407.1	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T006	VOLUME		626470.7	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T007	VOLUME		626534.3	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T008	VOLUME		626597.9	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T009	VOLUME		626661.5	4273877.7	0	0.00002593211623	(g/s)	5
7NL8T00A	VOLUME		626343.5	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00B	VOLUME		626407.1	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00C	VOLUME		626470.7	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00D	VOLUME		626534.3	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00E	VOLUME		626597.9	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00F	VOLUME		626661.5	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00G	VOLUME		626725.1	4273941.3	0	0.00002593211623	(g/s)	5
7NL8T00H	VOLUME		626279.8	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00I	VOLUME		626343.5	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00J	VOLUME		626407.1	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00K	VOLUME		626470.7	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00L	VOLUME		626534.3	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00M	VOLUME		626597.9	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00N	VOLUME		626661.5	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00O	VOLUME		626725.1	4274005.0	0	0.00002593211623	(g/s)	5
7NL8T00P	VOLUME		626216.2	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00Q	VOLUME		626279.8	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00R	VOLUME		626343.5	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00S	VOLUME		626407.1	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00T	VOLUME		626470.7	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00U	VOLUME		626534.3	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00V	VOLUME		626597.9	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00W	VOLUME		626661.5	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00X	VOLUME		626725.1	4274068.6	0	0.00002593211623	(g/s)	5
7NL8T00Y	VOLUME		626788.8	4274068.6	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T00Z	VOLUME		626152.6	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T010	VOLUME		626216.2	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T011	VOLUME		626279.8	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T012	VOLUME		626343.5	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T013	VOLUME		626407.1	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T014	VOLUME		626470.7	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T015	VOLUME		626534.3	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T016	VOLUME		626597.9	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T017	VOLUME		626661.5	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T018	VOLUME		626725.1	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T019	VOLUME		626788.8	4274132.2	0	0.00002593211623	(g/s)	5
7NL8T01A	VOLUME		626025.4	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01B	VOLUME		626089.0	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01C	VOLUME		626152.6	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01D	VOLUME		626216.2	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01E	VOLUME		626279.8	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01F	VOLUME		626343.5	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01G	VOLUME		626407.1	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01H	VOLUME		626470.7	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01I	VOLUME		626534.3	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01J	VOLUME		626597.9	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01K	VOLUME		626661.5	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01L	VOLUME		626725.1	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01M	VOLUME		626788.8	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01N	VOLUME		626852.4	4274195.8	0	0.00002593211623	(g/s)	5
7NL8T01O	VOLUME		626025.4	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01P	VOLUME		626089.0	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01Q	VOLUME		626152.6	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01R	VOLUME		626216.2	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01S	VOLUME		626279.8	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01T	VOLUME		626343.5	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01U	VOLUME		626407.1	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01V	VOLUME		626470.7	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01W	VOLUME		626534.3	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01X	VOLUME		626597.9	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01Y	VOLUME		626661.5	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T01Z	VOLUME		626725.1	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T020	VOLUME		626788.8	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T021	VOLUME		626852.4	4274259.4	0	0.00002593211623	(g/s)	5
7NL8T022	VOLUME		626025.4	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T023	VOLUME		626089.0	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T024	VOLUME		626152.6	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T025	VOLUME		626216.2	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T026	VOLUME		626279.8	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T027	VOLUME		626343.5	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T028	VOLUME		626407.1	4274323.0	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T029	VOLUME		626470.7	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02A	VOLUME		626534.3	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02B	VOLUME		626597.9	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02C	VOLUME		626661.5	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02D	VOLUME		626725.1	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02E	VOLUME		626788.8	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02F	VOLUME		626852.4	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02G	VOLUME		626916.0	4274323.0	0	0.00002593211623	(g/s)	5
7NL8T02H	VOLUME		625961.8	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02I	VOLUME		626025.4	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02J	VOLUME		626089.0	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02K	VOLUME		626152.6	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02L	VOLUME		626216.2	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02M	VOLUME		626279.8	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02N	VOLUME		626343.5	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02O	VOLUME		626407.1	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02P	VOLUME		626470.7	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02Q	VOLUME		626534.3	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02R	VOLUME		626597.9	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02S	VOLUME		626661.5	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02T	VOLUME		626725.1	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02U	VOLUME		626788.8	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02V	VOLUME		626852.4	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02W	VOLUME		626916.0	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02X	VOLUME		626979.6	4274386.7	0	0.00002593211623	(g/s)	5
7NL8T02Y	VOLUME		625961.8	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T02Z	VOLUME		626025.4	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T030	VOLUME		626089.0	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T031	VOLUME		626152.6	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T032	VOLUME		626216.2	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T033	VOLUME		626279.8	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T034	VOLUME		626343.5	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T035	VOLUME		626407.1	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T036	VOLUME		626470.7	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T037	VOLUME		626534.3	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T038	VOLUME		626597.9	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T039	VOLUME		626661.5	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03A	VOLUME		626725.1	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03B	VOLUME		626788.8	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03C	VOLUME		626852.4	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03D	VOLUME		626916.0	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03E	VOLUME		626979.6	4274450.3	0	0.00002593211623	(g/s)	5
7NL8T03F	VOLUME		625898.1	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03G	VOLUME		625961.8	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03H	VOLUME		626025.4	4274513.9	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T03I	VOLUME		626089.0	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03J	VOLUME		626152.6	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03K	VOLUME		626216.2	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03L	VOLUME		626279.8	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03M	VOLUME		626343.5	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03N	VOLUME		626407.1	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03O	VOLUME		626470.7	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03P	VOLUME		626534.3	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03Q	VOLUME		626597.9	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03R	VOLUME		626661.5	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03S	VOLUME		626725.1	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03T	VOLUME		626788.8	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03U	VOLUME		626852.4	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03V	VOLUME		626916.0	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03W	VOLUME		626979.6	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03X	VOLUME		627043.2	4274513.9	0	0.00002593211623	(g/s)	5
7NL8T03Y	VOLUME		625898.1	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T03Z	VOLUME		625961.8	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T040	VOLUME		626025.4	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T041	VOLUME		626089.0	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T042	VOLUME		626152.6	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T043	VOLUME		626216.2	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T044	VOLUME		626279.8	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T045	VOLUME		626343.5	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T046	VOLUME		626407.1	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T047	VOLUME		626470.7	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T048	VOLUME		626534.3	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T049	VOLUME		626597.9	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04A	VOLUME		626661.5	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04B	VOLUME		626725.1	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04C	VOLUME		626788.8	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04D	VOLUME		626852.4	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04E	VOLUME		626916.0	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04F	VOLUME		626979.6	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04G	VOLUME		627043.2	4274577.5	0	0.00002593211623	(g/s)	5
7NL8T04H	VOLUME		625834.5	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04I	VOLUME		625898.1	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04J	VOLUME		625961.8	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04K	VOLUME		626025.4	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04L	VOLUME		626089.0	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04M	VOLUME		626152.6	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04N	VOLUME		626216.2	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04O	VOLUME		626279.8	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04P	VOLUME		626343.5	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04Q	VOLUME		626407.1	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04R	VOLUME		626470.7	4274641.1	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T04S	VOLUME		626534.3	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04T	VOLUME		626597.9	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04U	VOLUME		626661.5	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04V	VOLUME		626725.1	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04W	VOLUME		626788.8	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04X	VOLUME		626852.4	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04Y	VOLUME		626916.0	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T04Z	VOLUME		626979.6	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T050	VOLUME		627043.2	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T051	VOLUME		627106.8	4274641.1	0	0.00002593211623	(g/s)	5
7NL8T052	VOLUME		625834.5	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T053	VOLUME		625898.1	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T054	VOLUME		625961.8	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T055	VOLUME		626025.4	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T056	VOLUME		626089.0	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T057	VOLUME		626152.6	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T058	VOLUME		626216.2	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T059	VOLUME		626279.8	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05A	VOLUME		626343.5	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05B	VOLUME		626407.1	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05C	VOLUME		626470.7	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05D	VOLUME		626534.3	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05E	VOLUME		626597.9	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05F	VOLUME		626661.5	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05G	VOLUME		626725.1	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05H	VOLUME		626788.8	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05I	VOLUME		626852.4	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05J	VOLUME		626916.0	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05K	VOLUME		626979.6	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05L	VOLUME		627043.2	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05M	VOLUME		627106.8	4274704.7	0	0.00002593211623	(g/s)	5
7NL8T05N	VOLUME		625834.5	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05O	VOLUME		625898.1	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05P	VOLUME		625961.8	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05Q	VOLUME		626025.4	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05R	VOLUME		626089.0	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05S	VOLUME		626152.6	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05T	VOLUME		626216.2	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05U	VOLUME		626279.8	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05V	VOLUME		626343.5	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05W	VOLUME		626407.1	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05X	VOLUME		626470.7	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05Y	VOLUME		626534.3	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T05Z	VOLUME		626597.9	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T060	VOLUME		626661.5	4274768.3	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T061	VOLUME		626725.1	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T062	VOLUME		626788.8	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T063	VOLUME		626852.4	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T064	VOLUME		626916.0	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T065	VOLUME		626979.6	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T066	VOLUME		627043.2	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T067	VOLUME		627106.8	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T068	VOLUME		627170.4	4274768.3	0	0.00002593211623	(g/s)	5
7NL8T069	VOLUME		625770.9	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06A	VOLUME		625834.5	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06B	VOLUME		625898.1	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06C	VOLUME		625961.8	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06D	VOLUME		626025.4	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06E	VOLUME		626089.0	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06F	VOLUME		626152.6	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06G	VOLUME		626216.2	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06H	VOLUME		626279.8	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06I	VOLUME		626343.5	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06J	VOLUME		626407.1	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06K	VOLUME		626470.7	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06L	VOLUME		626534.3	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06M	VOLUME		626597.9	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06N	VOLUME		626661.5	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06O	VOLUME		626725.1	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06P	VOLUME		626788.8	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06Q	VOLUME		626852.4	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06R	VOLUME		626916.0	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06S	VOLUME		626979.6	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06T	VOLUME		627043.2	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06U	VOLUME		627106.8	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06V	VOLUME		627170.4	4274832.0	0	0.00002593211623	(g/s)	5
7NL8T06W	VOLUME		625770.9	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T06X	VOLUME		625834.5	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T06Y	VOLUME		625898.1	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T06Z	VOLUME		625961.8	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T070	VOLUME		626025.4	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T071	VOLUME		626089.0	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T072	VOLUME		626152.6	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T073	VOLUME		626216.2	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T074	VOLUME		626279.8	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T075	VOLUME		626343.5	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T076	VOLUME		626407.1	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T077	VOLUME		626470.7	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T078	VOLUME		626534.3	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T079	VOLUME		626597.9	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07A	VOLUME		626661.5	4274895.6	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T07B	VOLUME		626725.1	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07C	VOLUME		626788.8	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07D	VOLUME		626852.4	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07E	VOLUME		626916.0	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07F	VOLUME		626979.6	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07G	VOLUME		627043.2	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07H	VOLUME		627106.8	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07I	VOLUME		627170.4	4274895.6	0	0.00002593211623	(g/s)	5
7NL8T07J	VOLUME		625770.9	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07K	VOLUME		625834.5	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07L	VOLUME		625898.1	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07M	VOLUME		625961.8	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07N	VOLUME		626025.4	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07O	VOLUME		626089.0	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07P	VOLUME		626152.6	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07Q	VOLUME		626216.2	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07R	VOLUME		626279.8	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07S	VOLUME		626343.5	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07T	VOLUME		626407.1	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07U	VOLUME		626470.7	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07V	VOLUME		626534.3	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07W	VOLUME		626597.9	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07X	VOLUME		626661.5	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07Y	VOLUME		626725.1	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T07Z	VOLUME		626788.8	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T080	VOLUME		626852.4	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T081	VOLUME		626916.0	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T082	VOLUME		626979.6	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T083	VOLUME		627043.2	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T084	VOLUME		627106.8	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T085	VOLUME		627170.4	4274959.2	0	0.00002593211623	(g/s)	5
7NL8T086	VOLUME		625770.9	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T087	VOLUME		625834.5	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T088	VOLUME		625898.1	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T089	VOLUME		625961.8	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08A	VOLUME		626025.4	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08B	VOLUME		626089.0	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08C	VOLUME		626152.6	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08D	VOLUME		626216.2	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08E	VOLUME		626279.8	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08F	VOLUME		626343.5	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08G	VOLUME		626407.1	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08H	VOLUME		626470.7	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08I	VOLUME		626534.3	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08J	VOLUME		626597.9	4275022.8	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T08K	VOLUME		626661.5	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08L	VOLUME		626725.1	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08M	VOLUME		626788.8	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08N	VOLUME		626852.4	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08O	VOLUME		626916.0	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08P	VOLUME		626979.6	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08Q	VOLUME		627043.2	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08R	VOLUME		627106.8	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08S	VOLUME		627170.4	4275022.8	0	0.00002593211623	(g/s)	5
7NL8T08T	VOLUME		625770.9	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08U	VOLUME		625834.5	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08V	VOLUME		625898.1	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08W	VOLUME		625961.8	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08X	VOLUME		626025.4	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08Y	VOLUME		626089.0	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T08Z	VOLUME		626152.6	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T090	VOLUME		626216.2	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T091	VOLUME		626279.8	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T092	VOLUME		626343.5	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T093	VOLUME		626407.1	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T094	VOLUME		626470.7	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T095	VOLUME		626534.3	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T096	VOLUME		626597.9	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T097	VOLUME		626661.5	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T098	VOLUME		626725.1	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T099	VOLUME		626788.8	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09A	VOLUME		626852.4	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09B	VOLUME		626916.0	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09C	VOLUME		626979.6	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09D	VOLUME		627043.2	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09E	VOLUME		627106.8	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09F	VOLUME		627170.4	4275086.4	0	0.00002593211623	(g/s)	5
7NL8T09G	VOLUME		625770.9	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09H	VOLUME		625834.5	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09I	VOLUME		625898.1	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09J	VOLUME		625961.8	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09K	VOLUME		626025.4	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09L	VOLUME		626089.0	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09M	VOLUME		626152.6	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09N	VOLUME		626216.2	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09O	VOLUME		626279.8	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09P	VOLUME		626343.5	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09Q	VOLUME		626407.1	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09R	VOLUME		626470.7	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09S	VOLUME		626534.3	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09T	VOLUME		626597.9	4275150.0	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T09U	VOLUME		626661.5	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09V	VOLUME		626725.1	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09W	VOLUME		626788.8	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09X	VOLUME		626852.4	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09Y	VOLUME		626916.0	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T09Z	VOLUME		626979.6	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T0A0	VOLUME		627043.2	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T0A1	VOLUME		627106.8	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T0A2	VOLUME		627170.4	4275150.0	0	0.00002593211623	(g/s)	5
7NL8T0A3	VOLUME		625770.9	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A4	VOLUME		625834.5	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A5	VOLUME		625898.1	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A6	VOLUME		625961.8	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A7	VOLUME		626025.4	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A8	VOLUME		626089.0	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0A9	VOLUME		626152.6	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AA	VOLUME		626216.2	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AB	VOLUME		626279.8	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AC	VOLUME		626343.5	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AD	VOLUME		626407.1	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AE	VOLUME		626470.7	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AF	VOLUME		626534.3	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AG	VOLUME		626597.9	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AH	VOLUME		626661.5	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AI	VOLUME		626725.1	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AJ	VOLUME		626788.8	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AK	VOLUME		626852.4	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AL	VOLUME		626916.0	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AM	VOLUME		626979.6	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AN	VOLUME		627043.2	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AO	VOLUME		627106.8	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AP	VOLUME		627170.4	4275213.6	0	0.00002593211623	(g/s)	5
7NL8T0AQ	VOLUME		626025.4	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AR	VOLUME		626089.0	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AS	VOLUME		626152.6	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AT	VOLUME		626216.2	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AU	VOLUME		626279.8	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AV	VOLUME		626343.5	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AW	VOLUME		626407.1	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AX	VOLUME		626470.7	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AY	VOLUME		626534.3	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0AZ	VOLUME		626597.9	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B0	VOLUME		626661.5	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B1	VOLUME		626725.1	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B2	VOLUME		626788.8	4275277.3	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T0B3	VOLUME		626852.4	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B4	VOLUME		626916.0	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B5	VOLUME		626979.6	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B6	VOLUME		627043.2	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B7	VOLUME		627106.8	4275277.3	0	0.00002593211623	(g/s)	5
7NL8T0B8	VOLUME		626089.0	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0B9	VOLUME		626152.6	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BA	VOLUME		626216.2	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BB	VOLUME		626279.8	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BC	VOLUME		626343.5	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BD	VOLUME		626407.1	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BE	VOLUME		626470.7	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BF	VOLUME		626534.3	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BG	VOLUME		626597.9	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BH	VOLUME		626661.5	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BI	VOLUME		626725.1	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BJ	VOLUME		626788.8	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BK	VOLUME		626852.4	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BL	VOLUME		626916.0	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BM	VOLUME		626979.6	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BN	VOLUME		627043.2	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BO	VOLUME		627106.8	4275340.9	0	0.00002593211623	(g/s)	5
7NL8T0BP	VOLUME		626089.0	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BQ	VOLUME		626152.6	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BR	VOLUME		626216.2	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BS	VOLUME		626279.8	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BT	VOLUME		626343.5	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BU	VOLUME		626407.1	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BV	VOLUME		626470.7	4275404.5	0	2.593212E-05	(g/s)	5
7NL8T0BW	VOLUME		626534.3	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BX	VOLUME		626597.9	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BY	VOLUME		626661.5	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0BZ	VOLUME		626725.1	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C0	VOLUME		626788.8	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C1	VOLUME		626852.4	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C2	VOLUME		626916.0	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C3	VOLUME		626979.6	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C4	VOLUME		627043.2	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C5	VOLUME		627106.8	4275404.5	0	0.00002593211623	(g/s)	5
7NL8T0C6	VOLUME		626089.0	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0C7	VOLUME		626152.6	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0C8	VOLUME		626216.2	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0C9	VOLUME		626279.8	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CA	VOLUME		626343.5	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CB	VOLUME		626407.1	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CC	VOLUME		626470.7	4275468.1	0	0.00002593211623	(g/s)	5

On-Site Receptor

7NL8T0CD	VOLUME		626534.3	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CE	VOLUME		626597.9	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CF	VOLUME		626661.5	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CG	VOLUME		626725.1	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CH	VOLUME		626788.8	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CI	VOLUME		626852.4	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CJ	VOLUME		626916.0	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CK	VOLUME		626979.6	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CL	VOLUME		627043.2	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CM	VOLUME		627106.8	4275468.1	0	0.00002593211623	(g/s)	5
7NL8T0CN	VOLUME		626152.6	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CO	VOLUME		626216.2	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CP	VOLUME		626279.8	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CQ	VOLUME		626343.5	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CR	VOLUME		626407.1	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CS	VOLUME		626470.7	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CT	VOLUME		626534.3	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CU	VOLUME		626597.9	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CV	VOLUME		626661.5	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CW	VOLUME		626725.1	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CX	VOLUME		626788.8	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CY	VOLUME		626852.4	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0CZ	VOLUME		626916.0	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0D0	VOLUME		626979.6	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0D1	VOLUME		627043.2	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0D2	VOLUME		627106.8	4275531.7	0	0.00002593211623	(g/s)	5
7NL8T0D3	VOLUME		626152.6	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0D4	VOLUME		626216.2	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0D5	VOLUME		626279.8	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0D6	VOLUME		626343.5	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0D7	VOLUME		626407.1	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0D8	VOLUME		626470.7	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0D9	VOLUME		626534.3	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DA	VOLUME		626597.9	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DB	VOLUME		626661.5	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DC	VOLUME		626725.1	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DD	VOLUME		626788.8	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DE	VOLUME		626852.4	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DF	VOLUME		626916.0	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DG	VOLUME		626979.6	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DH	VOLUME		627043.2	4275595.3	0	0.00002593211623	(g/s)	5
7NL8T0DI	VOLUME		627106.8	4275595.3	0	0.00002593211623	(g/s)	5

Volume Sources

On-Site Receptor

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
7NL8T001		626470.7	4273814.1	0	0.00002593211623	5	29.59	1
7NL8T002		626534.3	4273814.1	0	0.00002593211623	5	29.59	1
7NL8T003		626597.9	4273814.1	0	0.00002593211623	5	29.59	1
7NL8T004		626661.5	4273814.1	0	0.00002593211623	5	29.59	1
7NL8T005		626407.1	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T006		626470.7	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T007		626534.3	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T008		626597.9	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T009		626661.5	4273877.7	0	0.00002593211623	5	29.59	1
7NL8T00A		626343.5	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00B		626407.1	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00C		626470.7	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00D		626534.3	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00E		626597.9	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00F		626661.5	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00G		626725.1	4273941.3	0	0.00002593211623	5	29.59	1
7NL8T00H		626279.8	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00I		626343.5	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00J		626407.1	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00K		626470.7	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00L		626534.3	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00M		626597.9	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00N		626661.5	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00O		626725.1	4274005.0	0	0.00002593211623	5	29.59	1
7NL8T00P		626216.2	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00Q		626279.8	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00R		626343.5	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00S		626407.1	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00T		626470.7	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00U		626534.3	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00V		626597.9	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00W		626661.5	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00X		626725.1	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00Y		626788.8	4274068.6	0	0.00002593211623	5	29.59	1
7NL8T00Z		626152.6	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T010		626216.2	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T011		626279.8	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T012		626343.5	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T013		626407.1	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T014		626470.7	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T015		626534.3	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T016		626597.9	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T017		626661.5	4274132.2	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T018		626725.1	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T019		626788.8	4274132.2	0	0.00002593211623	5	29.59	1
7NL8T01A		626025.4	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01B		626089.0	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01C		626152.6	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01D		626216.2	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01E		626279.8	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01F		626343.5	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01G		626407.1	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01H		626470.7	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01I		626534.3	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01J		626597.9	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01K		626661.5	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01L		626725.1	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01M		626788.8	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01N		626852.4	4274195.8	0	0.00002593211623	5	29.59	1
7NL8T01O		626025.4	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01P		626089.0	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01Q		626152.6	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01R		626216.2	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01S		626279.8	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01T		626343.5	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01U		626407.1	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01V		626470.7	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01W		626534.3	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01X		626597.9	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01Y		626661.5	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T01Z		626725.1	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T020		626788.8	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T021		626852.4	4274259.4	0	0.00002593211623	5	29.59	1
7NL8T022		626025.4	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T023		626089.0	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T024		626152.6	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T025		626216.2	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T026		626279.8	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T027		626343.5	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T028		626407.1	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T029		626470.7	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02A		626534.3	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02B		626597.9	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02C		626661.5	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02D		626725.1	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02E		626788.8	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02F		626852.4	4274323.0	0	0.00002593211623	5	29.59	1
7NL8T02G		626916.0	4274323.0	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T02H		625961.8	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02I		626025.4	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02J		626089.0	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02K		626152.6	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02L		626216.2	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02M		626279.8	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02N		626343.5	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02O		626407.1	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02P		626470.7	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02Q		626534.3	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02R		626597.9	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02S		626661.5	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02T		626725.1	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02U		626788.8	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02V		626852.4	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02W		626916.0	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02X		626979.6	4274386.7	0	0.00002593211623	5	29.59	1
7NL8T02Y		625961.8	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T02Z		626025.4	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T030		626089.0	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T031		626152.6	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T032		626216.2	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T033		626279.8	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T034		626343.5	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T035		626407.1	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T036		626470.7	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T037		626534.3	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T038		626597.9	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T039		626661.5	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03A		626725.1	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03B		626788.8	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03C		626852.4	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03D		626916.0	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03E		626979.6	4274450.3	0	0.00002593211623	5	29.59	1
7NL8T03F		625898.1	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03G		625961.8	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03H		626025.4	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03I		626089.0	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03J		626152.6	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03K		626216.2	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03L		626279.8	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03M		626343.5	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03N		626407.1	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03O		626470.7	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03P		626534.3	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03Q		626597.9	4274513.9	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T03R		626661.5	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03S		626725.1	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03T		626788.8	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03U		626852.4	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03V		626916.0	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03W		626979.6	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03X		627043.2	4274513.9	0	0.00002593211623	5	29.59	1
7NL8T03Y		625898.1	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T03Z		625961.8	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T040		626025.4	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T041		626089.0	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T042		626152.6	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T043		626216.2	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T044		626279.8	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T045		626343.5	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T046		626407.1	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T047		626470.7	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T048		626534.3	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T049		626597.9	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04A		626661.5	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04B		626725.1	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04C		626788.8	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04D		626852.4	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04E		626916.0	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04F		626979.6	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04G		627043.2	4274577.5	0	0.00002593211623	5	29.59	1
7NL8T04H		625834.5	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04I		625898.1	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04J		625961.8	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04K		626025.4	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04L		626089.0	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04M		626152.6	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04N		626216.2	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04O		626279.8	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04P		626343.5	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04Q		626407.1	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04R		626470.7	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04S		626534.3	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04T		626597.9	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04U		626661.5	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04V		626725.1	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04W		626788.8	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04X		626852.4	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04Y		626916.0	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T04Z		626979.6	4274641.1	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T050		627043.2	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T051		627106.8	4274641.1	0	0.00002593211623	5	29.59	1
7NL8T052		625834.5	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T053		625898.1	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T054		625961.8	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T055		626025.4	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T056		626089.0	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T057		626152.6	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T058		626216.2	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T059		626279.8	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05A		626343.5	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05B		626407.1	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05C		626470.7	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05D		626534.3	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05E		626597.9	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05F		626661.5	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05G		626725.1	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05H		626788.8	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05I		626852.4	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05J		626916.0	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05K		626979.6	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05L		627043.2	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05M		627106.8	4274704.7	0	0.00002593211623	5	29.59	1
7NL8T05N		625834.5	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05O		625898.1	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05P		625961.8	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05Q		626025.4	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05R		626089.0	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05S		626152.6	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05T		626216.2	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05U		626279.8	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05V		626343.5	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05W		626407.1	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05X		626470.7	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05Y		626534.3	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T05Z		626597.9	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T060		626661.5	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T061		626725.1	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T062		626788.8	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T063		626852.4	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T064		626916.0	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T065		626979.6	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T066		627043.2	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T067		627106.8	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T068		627170.4	4274768.3	0	0.00002593211623	5	29.59	1
7NL8T069		625770.9	4274832.0	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T06A		625834.5	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06B		625898.1	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06C		625961.8	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06D		626025.4	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06E		626089.0	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06F		626152.6	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06G		626216.2	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06H		626279.8	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06I		626343.5	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06J		626407.1	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06K		626470.7	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06L		626534.3	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06M		626597.9	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06N		626661.5	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06O		626725.1	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06P		626788.8	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06Q		626852.4	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06R		626916.0	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06S		626979.6	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06T		627043.2	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06U		627106.8	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06V		627170.4	4274832.0	0	0.00002593211623	5	29.59	1
7NL8T06W		625770.9	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T06X		625834.5	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T06Y		625898.1	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T06Z		625961.8	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T070		626025.4	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T071		626089.0	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T072		626152.6	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T073		626216.2	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T074		626279.8	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T075		626343.5	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T076		626407.1	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T077		626470.7	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T078		626534.3	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T079		626597.9	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07A		626661.5	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07B		626725.1	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07C		626788.8	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07D		626852.4	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07E		626916.0	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07F		626979.6	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07G		627043.2	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07H		627106.8	4274895.6	0	0.00002593211623	5	29.59	1
7NL8T07I		627170.4	4274895.6	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T07J		625770.9	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07K		625834.5	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07L		625898.1	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07M		625961.8	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07N		626025.4	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07O		626089.0	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07P		626152.6	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07Q		626216.2	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07R		626279.8	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07S		626343.5	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07T		626407.1	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07U		626470.7	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07V		626534.3	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07W		626597.9	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07X		626661.5	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07Y		626725.1	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T07Z		626788.8	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T080		626852.4	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T081		626916.0	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T082		626979.6	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T083		627043.2	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T084		627106.8	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T085		627170.4	4274959.2	0	0.00002593211623	5	29.59	1
7NL8T086		625770.9	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T087		625834.5	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T088		625898.1	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T089		625961.8	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08A		626025.4	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08B		626089.0	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08C		626152.6	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08D		626216.2	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08E		626279.8	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08F		626343.5	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08G		626407.1	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08H		626470.7	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08I		626534.3	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08J		626597.9	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08K		626661.5	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08L		626725.1	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08M		626788.8	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08N		626852.4	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08O		626916.0	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08P		626979.6	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08Q		627043.2	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08R		627106.8	4275022.8	0	0.00002593211623	5	29.59	1
7NL8T08S		627170.4	4275022.8	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T08T		625770.9	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08U		625834.5	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08V		625898.1	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08W		625961.8	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08X		626025.4	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08Y		626089.0	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T08Z		626152.6	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T090		626216.2	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T091		626279.8	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T092		626343.5	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T093		626407.1	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T094		626470.7	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T095		626534.3	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T096		626597.9	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T097		626661.5	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T098		626725.1	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T099		626788.8	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09A		626852.4	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09B		626916.0	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09C		626979.6	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09D		627043.2	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09E		627106.8	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09F		627170.4	4275086.4	0	0.00002593211623	5	29.59	1
7NL8T09G		625770.9	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09H		625834.5	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09I		625898.1	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09J		625961.8	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09K		626025.4	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09L		626089.0	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09M		626152.6	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09N		626216.2	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09O		626279.8	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09P		626343.5	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09Q		626407.1	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09R		626470.7	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09S		626534.3	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09T		626597.9	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09U		626661.5	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09V		626725.1	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09W		626788.8	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09X		626852.4	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09Y		626916.0	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T09Z		626979.6	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T0A0		627043.2	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T0A1		627106.8	4275150.0	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T0A2		627170.4	4275150.0	0	0.00002593211623	5	29.59	1
7NL8T0A3		625770.9	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A4		625834.5	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A5		625898.1	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A6		625961.8	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A7		626025.4	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A8		626089.0	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0A9		626152.6	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AA		626216.2	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AB		626279.8	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AC		626343.5	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AD		626407.1	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AE		626470.7	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AF		626534.3	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AG		626597.9	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AH		626661.5	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AI		626725.1	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AJ		626788.8	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AK		626852.4	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AL		626916.0	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AM		626979.6	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AN		627043.2	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AO		627106.8	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AP		627170.4	4275213.6	0	0.00002593211623	5	29.59	1
7NL8T0AQ		626025.4	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AR		626089.0	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AS		626152.6	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AT		626216.2	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AU		626279.8	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AV		626343.5	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AW		626407.1	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AX		626470.7	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AY		626534.3	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0AZ		626597.9	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B0		626661.5	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B1		626725.1	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B2		626788.8	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B3		626852.4	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B4		626916.0	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B5		626979.6	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B6		627043.2	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B7		627106.8	4275277.3	0	0.00002593211623	5	29.59	1
7NL8T0B8		626089.0	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0B9		626152.6	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BA		626216.2	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BB		626279.8	4275340.9	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T0BC		626343.5	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BD		626407.1	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BE		626470.7	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BF		626534.3	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BG		626597.9	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BH		626661.5	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BI		626725.1	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BJ		626788.8	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BK		626852.4	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BL		626916.0	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BM		626979.6	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BN		627043.2	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BO		627106.8	4275340.9	0	0.00002593211623	5	29.59	1
7NL8T0BP		626089.0	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BQ		626152.6	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BR		626216.2	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BS		626279.8	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BT		626343.5	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BU		626407.1	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BV		626470.7	4275404.5	0	2.593212E-05	5	29.59	1
7NL8T0BW		626534.3	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BX		626597.9	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BY		626661.5	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0BZ		626725.1	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C0		626788.8	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C1		626852.4	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C2		626916.0	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C3		626979.6	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C4		627043.2	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C5		627106.8	4275404.5	0	0.00002593211623	5	29.59	1
7NL8T0C6		626089.0	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0C7		626152.6	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0C8		626216.2	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0C9		626279.8	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CA		626343.5	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CB		626407.1	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CC		626470.7	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CD		626534.3	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CE		626597.9	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CF		626661.5	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CG		626725.1	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CH		626788.8	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CI		626852.4	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CJ		626916.0	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CK		626979.6	4275468.1	0	0.00002593211623	5	29.59	1

On-Site Receptor

7NL8T0CL		627043.2	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CM		627106.8	4275468.1	0	0.00002593211623	5	29.59	1
7NL8T0CN		626152.6	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CO		626216.2	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CP		626279.8	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CQ		626343.5	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CR		626407.1	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CS		626470.7	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CT		626534.3	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CU		626597.9	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CV		626661.5	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CW		626725.1	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CX		626788.8	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CY		626852.4	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0CZ		626916.0	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0D0		626979.6	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0D1		627043.2	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0D2		627106.8	4275531.7	0	0.00002593211623	5	29.59	1
7NL8T0D3		626152.6	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D4		626216.2	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D5		626279.8	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D6		626343.5	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D7		626407.1	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D8		626470.7	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0D9		626534.3	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DA		626597.9	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DB		626661.5	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DC		626725.1	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DD		626788.8	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DE		626852.4	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DF		626916.0	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DG		626979.6	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DH		627043.2	4275595.3	0	0.00002593211623	5	29.59	1
7NL8T0DI		627106.8	4275595.3	0	0.00002593211623	5	29.59	1

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
			East (m)	North (m)	(m)	(m)	(m)		
ALL	1ST	0.02078	626496.90	4274799.00	0.00	0.00	1.80	DC	
	2ND	0.02075	626496.90	4274804.00	0.00	0.00	1.80	DC	
	3RD	0.02073	626501.90	4274799.00	0.00	0.00	1.80	DC	
	4TH	0.02072	626506.90	4274799.00	0.00	0.00	1.80	DC	
	5TH	0.02071	626501.90	4274804.00	0.00	0.00	1.80	DC	
	6TH	0.02069	626506.90	4274804.00	0.00	0.00	1.80	DC	
	7TH	0.00000	0.00	0.00	0.00	0.00	0.00		
	8TH	0.00000	0.00	0.00	0.00	0.00	0.00		
	9TH	0.00000	0.00	0.00	0.00	0.00	0.00		
	10TH	0.00000	0.00	0.00	0.00	0.00	0.00		

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	0.80814	ug/m**3	15040807	626496.90	4274804.00	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H

On-Site Receptor

WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H
WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

www.breeze-software.com

*HARP - HRACalc v22118 2/2/2024 3:43:41 PM - Cancer Risk - Input File: C:\Users\jfharney\Desktop\HARF

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	RISK_SUM	SCENARIO	DETAILS
1			9901	DieselExhP	0.02078	1.20E-05	8YrCancerI	*

2 Results\UWSP_1000 foot buffer test_HRAInput.hra

[illegible]

PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVE	PASTURE_C	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/2/2024 3:43:41 PM - Chronic Risk - Input File: C:\Users\jfahrney\Desktop\HAR

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExhP	0.02078	NonCancer	0.00E+00	0.00E+00

P Results\UWSP_1000 foot buffer test_HRAInput.hra

IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEET	ENDO
0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MMILK_DO	WATER_DO
0.00E+00	0.00E+00	0.00E+00	*	2.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

3RD_DRIVE	PASTURE_C	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/2/2024 3:43:41 PM - Acute Risk - Input File: C:\Users\jfhahney\Desktop\HARP I

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExhP	0.80814	NonCancer	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	UWSP Construction HRA
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	I:\Projects\Active\Sacramento County\Upper Westside\HRA\Construction HRA\April 2023 Remodel\AERMOD\SACINT~1.SFC
ME	PROFFILE	Profile met file	I:\Projects\Active\Sacramento County\Upper Westside\HRA\Construction HRA\April 2023 Remodel\AERMOD\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

Tier 4 Mitigated

OU	DAYTABLE	Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
7NL8T001	VOLUME		626470.7	4273814.1	0	0.00000598612424	(g/s)	5
7NL8T002	VOLUME		626534.3	4273814.1	0	0.00000598612424	(g/s)	5
7NL8T003	VOLUME		626597.9	4273814.1	0	0.00000598612424	(g/s)	5
7NL8T004	VOLUME		626661.5	4273814.1	0	0.00000598612424	(g/s)	5
7NL8T005	VOLUME		626407.1	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T006	VOLUME		626470.7	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T007	VOLUME		626534.3	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T008	VOLUME		626597.9	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T009	VOLUME		626661.5	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T00A	VOLUME		626343.5	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00B	VOLUME		626407.1	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00C	VOLUME		626470.7	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00D	VOLUME		626534.3	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00E	VOLUME		626597.9	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00F	VOLUME		626661.5	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00G	VOLUME		626725.1	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00H	VOLUME		626279.8	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00I	VOLUME		626343.5	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00J	VOLUME		626407.1	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00K	VOLUME		626470.7	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00L	VOLUME		626534.3	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00M	VOLUME		626597.9	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00N	VOLUME		626661.5	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00O	VOLUME		626725.1	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00P	VOLUME		626216.2	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00Q	VOLUME		626279.8	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00R	VOLUME		626343.5	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00S	VOLUME		626407.1	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00T	VOLUME		626470.7	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00U	VOLUME		626534.3	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00V	VOLUME		626597.9	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00W	VOLUME		626661.5	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00X	VOLUME		626725.1	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00Y	VOLUME		626788.8	4274068.6	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T00Z	VOLUME		626152.6	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T010	VOLUME		626216.2	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T011	VOLUME		626279.8	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T012	VOLUME		626343.5	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T013	VOLUME		626407.1	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T014	VOLUME		626470.7	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T015	VOLUME		626534.3	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T016	VOLUME		626597.9	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T017	VOLUME		626661.5	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T018	VOLUME		626725.1	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T019	VOLUME		626788.8	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T01A	VOLUME		626025.4	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01B	VOLUME		626089.0	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01C	VOLUME		626152.6	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01D	VOLUME		626216.2	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01E	VOLUME		626279.8	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01F	VOLUME		626343.5	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01G	VOLUME		626407.1	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01H	VOLUME		626470.7	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01I	VOLUME		626534.3	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01J	VOLUME		626597.9	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01K	VOLUME		626661.5	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01L	VOLUME		626725.1	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01M	VOLUME		626788.8	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01N	VOLUME		626852.4	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01O	VOLUME		626025.4	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01P	VOLUME		626089.0	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01Q	VOLUME		626152.6	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01R	VOLUME		626216.2	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01S	VOLUME		626279.8	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01T	VOLUME		626343.5	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01U	VOLUME		626407.1	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01V	VOLUME		626470.7	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01W	VOLUME		626534.3	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01X	VOLUME		626597.9	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01Y	VOLUME		626661.5	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01Z	VOLUME		626725.1	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T020	VOLUME		626788.8	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T021	VOLUME		626852.4	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T022	VOLUME		626025.4	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T023	VOLUME		626089.0	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T024	VOLUME		626152.6	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T025	VOLUME		626216.2	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T026	VOLUME		626279.8	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T027	VOLUME		626343.5	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T028	VOLUME		626407.1	4274323.0	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T029	VOLUME		626470.7	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02A	VOLUME		626534.3	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02B	VOLUME		626597.9	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02C	VOLUME		626661.5	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02D	VOLUME		626725.1	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02E	VOLUME		626788.8	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02F	VOLUME		626852.4	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02G	VOLUME		626916.0	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02H	VOLUME		625961.8	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02I	VOLUME		626025.4	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02J	VOLUME		626089.0	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02K	VOLUME		626152.6	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02L	VOLUME		626216.2	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02M	VOLUME		626279.8	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02N	VOLUME		626343.5	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02O	VOLUME		626407.1	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02P	VOLUME		626470.7	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02Q	VOLUME		626534.3	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02R	VOLUME		626597.9	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02S	VOLUME		626661.5	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02T	VOLUME		626725.1	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02U	VOLUME		626788.8	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02V	VOLUME		626852.4	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02W	VOLUME		626916.0	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02X	VOLUME		626979.6	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02Y	VOLUME		625961.8	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T02Z	VOLUME		626025.4	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T030	VOLUME		626089.0	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T031	VOLUME		626152.6	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T032	VOLUME		626216.2	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T033	VOLUME		626279.8	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T034	VOLUME		626343.5	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T035	VOLUME		626407.1	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T036	VOLUME		626470.7	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T037	VOLUME		626534.3	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T038	VOLUME		626597.9	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T039	VOLUME		626661.5	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03A	VOLUME		626725.1	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03B	VOLUME		626788.8	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03C	VOLUME		626852.4	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03D	VOLUME		626916.0	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03E	VOLUME		626979.6	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03F	VOLUME		625898.1	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03G	VOLUME		625961.8	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03H	VOLUME		626025.4	4274513.9	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T03I	VOLUME		626089.0	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03J	VOLUME		626152.6	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03K	VOLUME		626216.2	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03L	VOLUME		626279.8	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03M	VOLUME		626343.5	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03N	VOLUME		626407.1	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03O	VOLUME		626470.7	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03P	VOLUME		626534.3	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03Q	VOLUME		626597.9	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03R	VOLUME		626661.5	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03S	VOLUME		626725.1	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03T	VOLUME		626788.8	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03U	VOLUME		626852.4	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03V	VOLUME		626916.0	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03W	VOLUME		626979.6	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03X	VOLUME		627043.2	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03Y	VOLUME		625898.1	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T03Z	VOLUME		625961.8	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T040	VOLUME		626025.4	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T041	VOLUME		626089.0	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T042	VOLUME		626152.6	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T043	VOLUME		626216.2	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T044	VOLUME		626279.8	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T045	VOLUME		626343.5	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T046	VOLUME		626407.1	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T047	VOLUME		626470.7	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T048	VOLUME		626534.3	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T049	VOLUME		626597.9	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04A	VOLUME		626661.5	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04B	VOLUME		626725.1	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04C	VOLUME		626788.8	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04D	VOLUME		626852.4	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04E	VOLUME		626916.0	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04F	VOLUME		626979.6	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04G	VOLUME		627043.2	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04H	VOLUME		625834.5	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04I	VOLUME		625898.1	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04J	VOLUME		625961.8	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04K	VOLUME		626025.4	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04L	VOLUME		626089.0	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04M	VOLUME		626152.6	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04N	VOLUME		626216.2	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04O	VOLUME		626279.8	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04P	VOLUME		626343.5	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04Q	VOLUME		626407.1	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04R	VOLUME		626470.7	4274641.1	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T04S	VOLUME		626534.3	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04T	VOLUME		626597.9	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04U	VOLUME		626661.5	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04V	VOLUME		626725.1	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04W	VOLUME		626788.8	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04X	VOLUME		626852.4	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04Y	VOLUME		626916.0	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04Z	VOLUME		626979.6	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T050	VOLUME		627043.2	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T051	VOLUME		627106.8	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T052	VOLUME		625834.5	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T053	VOLUME		625898.1	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T054	VOLUME		625961.8	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T055	VOLUME		626025.4	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T056	VOLUME		626089.0	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T057	VOLUME		626152.6	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T058	VOLUME		626216.2	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T059	VOLUME		626279.8	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05A	VOLUME		626343.5	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05B	VOLUME		626407.1	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05C	VOLUME		626470.7	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05D	VOLUME		626534.3	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05E	VOLUME		626597.9	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05F	VOLUME		626661.5	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05G	VOLUME		626725.1	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05H	VOLUME		626788.8	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05I	VOLUME		626852.4	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05J	VOLUME		626916.0	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05K	VOLUME		626979.6	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05L	VOLUME		627043.2	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05M	VOLUME		627106.8	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05N	VOLUME		625834.5	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05O	VOLUME		625898.1	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05P	VOLUME		625961.8	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05Q	VOLUME		626025.4	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05R	VOLUME		626089.0	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05S	VOLUME		626152.6	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05T	VOLUME		626216.2	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05U	VOLUME		626279.8	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05V	VOLUME		626343.5	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05W	VOLUME		626407.1	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05X	VOLUME		626470.7	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05Y	VOLUME		626534.3	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05Z	VOLUME		626597.9	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T060	VOLUME		626661.5	4274768.3	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T061	VOLUME		626725.1	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T062	VOLUME		626788.8	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T063	VOLUME		626852.4	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T064	VOLUME		626916.0	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T065	VOLUME		626979.6	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T066	VOLUME		627043.2	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T067	VOLUME		627106.8	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T068	VOLUME		627170.4	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T069	VOLUME		625770.9	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06A	VOLUME		625834.5	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06B	VOLUME		625898.1	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06C	VOLUME		625961.8	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06D	VOLUME		626025.4	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06E	VOLUME		626089.0	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06F	VOLUME		626152.6	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06G	VOLUME		626216.2	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06H	VOLUME		626279.8	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06I	VOLUME		626343.5	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06J	VOLUME		626407.1	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06K	VOLUME		626470.7	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06L	VOLUME		626534.3	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06M	VOLUME		626597.9	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06N	VOLUME		626661.5	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06O	VOLUME		626725.1	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06P	VOLUME		626788.8	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06Q	VOLUME		626852.4	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06R	VOLUME		626916.0	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06S	VOLUME		626979.6	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06T	VOLUME		627043.2	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06U	VOLUME		627106.8	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06V	VOLUME		627170.4	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06W	VOLUME		625770.9	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T06X	VOLUME		625834.5	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T06Y	VOLUME		625898.1	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T06Z	VOLUME		625961.8	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T070	VOLUME		626025.4	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T071	VOLUME		626089.0	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T072	VOLUME		626152.6	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T073	VOLUME		626216.2	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T074	VOLUME		626279.8	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T075	VOLUME		626343.5	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T076	VOLUME		626407.1	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T077	VOLUME		626470.7	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T078	VOLUME		626534.3	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T079	VOLUME		626597.9	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07A	VOLUME		626661.5	4274895.6	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T07B	VOLUME		626725.1	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07C	VOLUME		626788.8	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07D	VOLUME		626852.4	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07E	VOLUME		626916.0	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07F	VOLUME		626979.6	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07G	VOLUME		627043.2	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07H	VOLUME		627106.8	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07I	VOLUME		627170.4	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07J	VOLUME		625770.9	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07K	VOLUME		625834.5	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07L	VOLUME		625898.1	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07M	VOLUME		625961.8	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07N	VOLUME		626025.4	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07O	VOLUME		626089.0	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07P	VOLUME		626152.6	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07Q	VOLUME		626216.2	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07R	VOLUME		626279.8	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07S	VOLUME		626343.5	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07T	VOLUME		626407.1	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07U	VOLUME		626470.7	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07V	VOLUME		626534.3	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07W	VOLUME		626597.9	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07X	VOLUME		626661.5	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07Y	VOLUME		626725.1	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07Z	VOLUME		626788.8	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T080	VOLUME		626852.4	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T081	VOLUME		626916.0	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T082	VOLUME		626979.6	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T083	VOLUME		627043.2	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T084	VOLUME		627106.8	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T085	VOLUME		627170.4	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T086	VOLUME		625770.9	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T087	VOLUME		625834.5	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T088	VOLUME		625898.1	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T089	VOLUME		625961.8	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08A	VOLUME		626025.4	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08B	VOLUME		626089.0	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08C	VOLUME		626152.6	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08D	VOLUME		626216.2	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08E	VOLUME		626279.8	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08F	VOLUME		626343.5	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08G	VOLUME		626407.1	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08H	VOLUME		626470.7	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08I	VOLUME		626534.3	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08J	VOLUME		626597.9	4275022.8	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T08K	VOLUME		626661.5	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08L	VOLUME		626725.1	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08M	VOLUME		626788.8	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08N	VOLUME		626852.4	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08O	VOLUME		626916.0	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08P	VOLUME		626979.6	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08Q	VOLUME		627043.2	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08R	VOLUME		627106.8	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08S	VOLUME		627170.4	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08T	VOLUME		625770.9	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08U	VOLUME		625834.5	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08V	VOLUME		625898.1	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08W	VOLUME		625961.8	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08X	VOLUME		626025.4	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08Y	VOLUME		626089.0	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08Z	VOLUME		626152.6	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T090	VOLUME		626216.2	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T091	VOLUME		626279.8	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T092	VOLUME		626343.5	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T093	VOLUME		626407.1	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T094	VOLUME		626470.7	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T095	VOLUME		626534.3	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T096	VOLUME		626597.9	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T097	VOLUME		626661.5	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T098	VOLUME		626725.1	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T099	VOLUME		626788.8	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09A	VOLUME		626852.4	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09B	VOLUME		626916.0	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09C	VOLUME		626979.6	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09D	VOLUME		627043.2	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09E	VOLUME		627106.8	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09F	VOLUME		627170.4	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09G	VOLUME		625770.9	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09H	VOLUME		625834.5	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09I	VOLUME		625898.1	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09J	VOLUME		625961.8	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09K	VOLUME		626025.4	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09L	VOLUME		626089.0	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09M	VOLUME		626152.6	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09N	VOLUME		626216.2	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09O	VOLUME		626279.8	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09P	VOLUME		626343.5	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09Q	VOLUME		626407.1	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09R	VOLUME		626470.7	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09S	VOLUME		626534.3	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09T	VOLUME		626597.9	4275150.0	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T09U	VOLUME		626661.5	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09V	VOLUME		626725.1	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09W	VOLUME		626788.8	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09X	VOLUME		626852.4	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09Y	VOLUME		626916.0	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09Z	VOLUME		626979.6	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T0A0	VOLUME		627043.2	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T0A1	VOLUME		627106.8	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T0A2	VOLUME		627170.4	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T0A3	VOLUME		625770.9	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A4	VOLUME		625834.5	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A5	VOLUME		625898.1	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A6	VOLUME		625961.8	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A7	VOLUME		626025.4	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A8	VOLUME		626089.0	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A9	VOLUME		626152.6	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AA	VOLUME		626216.2	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AB	VOLUME		626279.8	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AC	VOLUME		626343.5	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AD	VOLUME		626407.1	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AE	VOLUME		626470.7	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AF	VOLUME		626534.3	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AG	VOLUME		626597.9	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AH	VOLUME		626661.5	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AI	VOLUME		626725.1	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AJ	VOLUME		626788.8	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AK	VOLUME		626852.4	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AL	VOLUME		626916.0	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AM	VOLUME		626979.6	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AN	VOLUME		627043.2	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AO	VOLUME		627106.8	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AP	VOLUME		627170.4	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AQ	VOLUME		626025.4	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AR	VOLUME		626089.0	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AS	VOLUME		626152.6	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AT	VOLUME		626216.2	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AU	VOLUME		626279.8	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AV	VOLUME		626343.5	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AW	VOLUME		626407.1	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AX	VOLUME		626470.7	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AY	VOLUME		626534.3	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AZ	VOLUME		626597.9	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B0	VOLUME		626661.5	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B1	VOLUME		626725.1	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B2	VOLUME		626788.8	4275277.3	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

7NL8T0B3	VOLUME		626852.4	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B4	VOLUME		626916.0	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B5	VOLUME		626979.6	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B6	VOLUME		627043.2	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B7	VOLUME		627106.8	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B8	VOLUME		626089.0	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0B9	VOLUME		626152.6	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BA	VOLUME		626216.2	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BB	VOLUME		626279.8	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BC	VOLUME		626343.5	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BD	VOLUME		626407.1	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BE	VOLUME		626470.7	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BF	VOLUME		626534.3	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BG	VOLUME		626597.9	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BH	VOLUME		626661.5	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BI	VOLUME		626725.1	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BJ	VOLUME		626788.8	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BK	VOLUME		626852.4	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BL	VOLUME		626916.0	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BM	VOLUME		626979.6	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BN	VOLUME		627043.2	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BO	VOLUME		627106.8	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BP	VOLUME		626089.0	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BQ	VOLUME		626152.6	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BR	VOLUME		626216.2	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BS	VOLUME		626279.8	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BT	VOLUME		626343.5	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BU	VOLUME		626407.1	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BV	VOLUME		626470.7	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BW	VOLUME		626534.3	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BX	VOLUME		626597.9	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BY	VOLUME		626661.5	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BZ	VOLUME		626725.1	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C0	VOLUME		626788.8	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C1	VOLUME		626852.4	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C2	VOLUME		626916.0	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C3	VOLUME		626979.6	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C4	VOLUME		627043.2	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C5	VOLUME		627106.8	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C6	VOLUME		626089.0	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0C7	VOLUME		626152.6	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0C8	VOLUME		626216.2	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0C9	VOLUME		626279.8	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CA	VOLUME		626343.5	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CB	VOLUME		626407.1	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CC	VOLUME		626470.7	4275468.1	0	0.00000598612424	(g/s)	5

7NL8T0CD	VOLUME		626534.3	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CE	VOLUME		626597.9	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CF	VOLUME		626661.5	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CG	VOLUME		626725.1	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CH	VOLUME		626788.8	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CI	VOLUME		626852.4	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CJ	VOLUME		626916.0	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CK	VOLUME		626979.6	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CL	VOLUME		627043.2	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CM	VOLUME		627106.8	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CN	VOLUME		626152.6	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CO	VOLUME		626216.2	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CP	VOLUME		626279.8	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CQ	VOLUME		626343.5	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CR	VOLUME		626407.1	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CS	VOLUME		626470.7	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CT	VOLUME		626534.3	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CU	VOLUME		626597.9	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CV	VOLUME		626661.5	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CW	VOLUME		626725.1	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CX	VOLUME		626788.8	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CY	VOLUME		626852.4	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CZ	VOLUME		626916.0	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0D0	VOLUME		626979.6	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0D1	VOLUME		627043.2	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0D2	VOLUME		627106.8	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0D3	VOLUME		626152.6	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D4	VOLUME		626216.2	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D5	VOLUME		626279.8	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D6	VOLUME		626343.5	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D7	VOLUME		626407.1	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D8	VOLUME		626470.7	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D9	VOLUME		626534.3	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DA	VOLUME		626597.9	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DB	VOLUME		626661.5	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DC	VOLUME		626725.1	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DD	VOLUME		626788.8	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DE	VOLUME		626852.4	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DF	VOLUME		626916.0	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DG	VOLUME		626979.6	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DH	VOLUME		627043.2	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DI	VOLUME		627106.8	4275595.3	0	0.00000598612424	(g/s)	5

Tier 4 Mitigated

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
7NL8T001		626470.7	4273814.1	0	0.00000598612424	5	29.59	1
7NL8T002		626534.3	4273814.1	0	0.00000598612424	5	29.59	1
7NL8T003		626597.9	4273814.1	0	0.00000598612424	5	29.59	1
7NL8T004		626661.5	4273814.1	0	0.00000598612424	5	29.59	1
7NL8T005		626407.1	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T006		626470.7	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T007		626534.3	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T008		626597.9	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T009		626661.5	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T00A		626343.5	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00B		626407.1	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00C		626470.7	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00D		626534.3	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00E		626597.9	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00F		626661.5	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00G		626725.1	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00H		626279.8	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00I		626343.5	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00J		626407.1	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00K		626470.7	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00L		626534.3	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00M		626597.9	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00N		626661.5	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00O		626725.1	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00P		626216.2	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00Q		626279.8	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00R		626343.5	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00S		626407.1	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00T		626470.7	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00U		626534.3	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00V		626597.9	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00W		626661.5	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00X		626725.1	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00Y		626788.8	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00Z		626152.6	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T010		626216.2	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T011		626279.8	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T012		626343.5	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T013		626407.1	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T014		626470.7	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T015		626534.3	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T016		626597.9	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T017		626661.5	4274132.2	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T018		626725.1	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T019		626788.8	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T01A		626025.4	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01B		626089.0	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01C		626152.6	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01D		626216.2	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01E		626279.8	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01F		626343.5	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01G		626407.1	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01H		626470.7	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01I		626534.3	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01J		626597.9	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01K		626661.5	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01L		626725.1	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01M		626788.8	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01N		626852.4	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01O		626025.4	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01P		626089.0	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01Q		626152.6	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01R		626216.2	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01S		626279.8	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01T		626343.5	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01U		626407.1	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01V		626470.7	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01W		626534.3	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01X		626597.9	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01Y		626661.5	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01Z		626725.1	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T020		626788.8	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T021		626852.4	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T022		626025.4	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T023		626089.0	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T024		626152.6	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T025		626216.2	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T026		626279.8	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T027		626343.5	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T028		626407.1	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T029		626470.7	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02A		626534.3	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02B		626597.9	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02C		626661.5	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02D		626725.1	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02E		626788.8	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02F		626852.4	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02G		626916.0	4274323.0	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T02H		625961.8	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02I		626025.4	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02J		626089.0	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02K		626152.6	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02L		626216.2	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02M		626279.8	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02N		626343.5	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02O		626407.1	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02P		626470.7	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02Q		626534.3	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02R		626597.9	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02S		626661.5	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02T		626725.1	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02U		626788.8	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02V		626852.4	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02W		626916.0	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02X		626979.6	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02Y		625961.8	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T02Z		626025.4	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T030		626089.0	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T031		626152.6	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T032		626216.2	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T033		626279.8	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T034		626343.5	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T035		626407.1	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T036		626470.7	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T037		626534.3	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T038		626597.9	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T039		626661.5	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03A		626725.1	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03B		626788.8	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03C		626852.4	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03D		626916.0	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03E		626979.6	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03F		625898.1	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03G		625961.8	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03H		626025.4	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03I		626089.0	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03J		626152.6	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03K		626216.2	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03L		626279.8	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03M		626343.5	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03N		626407.1	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03O		626470.7	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03P		626534.3	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03Q		626597.9	4274513.9	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T03R		626661.5	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03S		626725.1	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03T		626788.8	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03U		626852.4	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03V		626916.0	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03W		626979.6	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03X		627043.2	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03Y		625898.1	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T03Z		625961.8	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T040		626025.4	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T041		626089.0	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T042		626152.6	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T043		626216.2	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T044		626279.8	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T045		626343.5	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T046		626407.1	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T047		626470.7	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T048		626534.3	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T049		626597.9	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04A		626661.5	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04B		626725.1	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04C		626788.8	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04D		626852.4	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04E		626916.0	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04F		626979.6	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04G		627043.2	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04H		625834.5	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04I		625898.1	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04J		625961.8	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04K		626025.4	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04L		626089.0	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04M		626152.6	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04N		626216.2	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04O		626279.8	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04P		626343.5	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04Q		626407.1	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04R		626470.7	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04S		626534.3	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04T		626597.9	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04U		626661.5	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04V		626725.1	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04W		626788.8	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04X		626852.4	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04Y		626916.0	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04Z		626979.6	4274641.1	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T050		627043.2	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T051		627106.8	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T052		625834.5	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T053		625898.1	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T054		625961.8	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T055		626025.4	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T056		626089.0	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T057		626152.6	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T058		626216.2	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T059		626279.8	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05A		626343.5	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05B		626407.1	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05C		626470.7	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05D		626534.3	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05E		626597.9	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05F		626661.5	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05G		626725.1	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05H		626788.8	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05I		626852.4	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05J		626916.0	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05K		626979.6	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05L		627043.2	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05M		627106.8	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05N		625834.5	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05O		625898.1	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05P		625961.8	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05Q		626025.4	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05R		626089.0	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05S		626152.6	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05T		626216.2	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05U		626279.8	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05V		626343.5	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05W		626407.1	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05X		626470.7	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05Y		626534.3	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05Z		626597.9	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T060		626661.5	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T061		626725.1	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T062		626788.8	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T063		626852.4	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T064		626916.0	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T065		626979.6	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T066		627043.2	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T067		627106.8	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T068		627170.4	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T069		625770.9	4274832.0	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T06A		625834.5	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06B		625898.1	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06C		625961.8	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06D		626025.4	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06E		626089.0	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06F		626152.6	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06G		626216.2	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06H		626279.8	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06I		626343.5	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06J		626407.1	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06K		626470.7	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06L		626534.3	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06M		626597.9	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06N		626661.5	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06O		626725.1	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06P		626788.8	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06Q		626852.4	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06R		626916.0	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06S		626979.6	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06T		627043.2	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06U		627106.8	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06V		627170.4	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06W		625770.9	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T06X		625834.5	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T06Y		625898.1	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T06Z		625961.8	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T070		626025.4	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T071		626089.0	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T072		626152.6	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T073		626216.2	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T074		626279.8	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T075		626343.5	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T076		626407.1	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T077		626470.7	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T078		626534.3	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T079		626597.9	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07A		626661.5	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07B		626725.1	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07C		626788.8	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07D		626852.4	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07E		626916.0	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07F		626979.6	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07G		627043.2	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07H		627106.8	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07I		627170.4	4274895.6	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T07J		625770.9	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07K		625834.5	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07L		625898.1	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07M		625961.8	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07N		626025.4	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07O		626089.0	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07P		626152.6	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07Q		626216.2	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07R		626279.8	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07S		626343.5	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07T		626407.1	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07U		626470.7	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07V		626534.3	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07W		626597.9	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07X		626661.5	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07Y		626725.1	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07Z		626788.8	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T080		626852.4	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T081		626916.0	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T082		626979.6	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T083		627043.2	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T084		627106.8	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T085		627170.4	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T086		625770.9	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T087		625834.5	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T088		625898.1	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T089		625961.8	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08A		626025.4	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08B		626089.0	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08C		626152.6	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08D		626216.2	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08E		626279.8	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08F		626343.5	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08G		626407.1	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08H		626470.7	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08I		626534.3	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08J		626597.9	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08K		626661.5	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08L		626725.1	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08M		626788.8	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08N		626852.4	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08O		626916.0	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08P		626979.6	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08Q		627043.2	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08R		627106.8	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08S		627170.4	4275022.8	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T08T		625770.9	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08U		625834.5	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08V		625898.1	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08W		625961.8	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08X		626025.4	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08Y		626089.0	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08Z		626152.6	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T090		626216.2	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T091		626279.8	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T092		626343.5	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T093		626407.1	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T094		626470.7	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T095		626534.3	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T096		626597.9	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T097		626661.5	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T098		626725.1	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T099		626788.8	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09A		626852.4	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09B		626916.0	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09C		626979.6	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09D		627043.2	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09E		627106.8	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09F		627170.4	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09G		625770.9	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09H		625834.5	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09I		625898.1	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09J		625961.8	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09K		626025.4	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09L		626089.0	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09M		626152.6	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09N		626216.2	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09O		626279.8	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09P		626343.5	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09Q		626407.1	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09R		626470.7	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09S		626534.3	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09T		626597.9	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09U		626661.5	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09V		626725.1	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09W		626788.8	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09X		626852.4	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09Y		626916.0	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09Z		626979.6	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T0A0		627043.2	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T0A1		627106.8	4275150.0	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T0A2		627170.4	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T0A3		625770.9	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A4		625834.5	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A5		625898.1	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A6		625961.8	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A7		626025.4	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A8		626089.0	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A9		626152.6	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AA		626216.2	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AB		626279.8	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AC		626343.5	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AD		626407.1	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AE		626470.7	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AF		626534.3	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AG		626597.9	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AH		626661.5	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AI		626725.1	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AJ		626788.8	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AK		626852.4	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AL		626916.0	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AM		626979.6	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AN		627043.2	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AO		627106.8	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AP		627170.4	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AQ		626025.4	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AR		626089.0	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AS		626152.6	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AT		626216.2	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AU		626279.8	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AV		626343.5	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AW		626407.1	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AX		626470.7	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AY		626534.3	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AZ		626597.9	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B0		626661.5	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B1		626725.1	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B2		626788.8	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B3		626852.4	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B4		626916.0	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B5		626979.6	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B6		627043.2	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B7		627106.8	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B8		626089.0	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0B9		626152.6	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BA		626216.2	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BB		626279.8	4275340.9	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T0BC		626343.5	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BD		626407.1	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BE		626470.7	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BF		626534.3	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BG		626597.9	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BH		626661.5	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BI		626725.1	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BJ		626788.8	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BK		626852.4	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BL		626916.0	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BM		626979.6	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BN		627043.2	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BO		627106.8	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BP		626089.0	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BQ		626152.6	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BR		626216.2	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BS		626279.8	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BT		626343.5	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BU		626407.1	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BV		626470.7	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BW		626534.3	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BX		626597.9	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BY		626661.5	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BZ		626725.1	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C0		626788.8	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C1		626852.4	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C2		626916.0	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C3		626979.6	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C4		627043.2	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C5		627106.8	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C6		626089.0	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0C7		626152.6	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0C8		626216.2	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0C9		626279.8	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CA		626343.5	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CB		626407.1	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CC		626470.7	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CD		626534.3	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CE		626597.9	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CF		626661.5	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CG		626725.1	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CH		626788.8	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CI		626852.4	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CJ		626916.0	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CK		626979.6	4275468.1	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

7NL8T0CL		627043.2	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CM		627106.8	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CN		626152.6	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CO		626216.2	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CP		626279.8	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CQ		626343.5	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CR		626407.1	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CS		626470.7	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CT		626534.3	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CU		626597.9	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CV		626661.5	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CW		626725.1	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CX		626788.8	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CY		626852.4	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CZ		626916.0	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0D0		626979.6	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0D1		627043.2	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0D2		627106.8	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0D3		626152.6	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D4		626216.2	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D5		626279.8	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D6		626343.5	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D7		626407.1	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D8		626470.7	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D9		626534.3	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DA		626597.9	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DB		626661.5	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DC		626725.1	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DD		626788.8	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DE		626852.4	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DF		626916.0	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DG		626979.6	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DH		627043.2	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DI		627106.8	4275595.3	0	0.00000598612424	5	29.59	1

Tier 4 Mitigated

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
			East (m)	North (m)					
ALL	1ST	0.00294	625918.60	4275280.50	0.00	0.00	1.80	DC	
	2ND	0.00280	625888.60	4275280.50	0.00	0.00	1.80	DC	
	3RD	0.00279	627178.60	4275280.50	0.00	0.00	1.80	DC	
	4TH	0.00270	626518.60	4275670.50	0.00	0.00	1.80	DC	
	5TH	0.00270	626488.60	4275670.50	0.00	0.00	1.80	DC	
	6TH	0.00270	626458.60	4275670.50	0.00	0.00	1.80	DC	
	7TH	0.00270	626548.60	4275670.50	0.00	0.00	1.80	DC	
	8TH	0.00270	625948.60	4275310.50	0.00	0.00	1.80	DC	
	9TH	0.00270	626578.60	4275670.50	0.00	0.00	1.80	DC	
	10TH	0.00269	626428.60	4275670.50	0.00	0.00	1.80	DC	

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	0.17698	ug/m**3	15011709	627178.60	4275280.50	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H

Tier 4 Mitigated

WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H
WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

www.breeze-software.com

*HARP - HRACalc v22118 2/7/2024 2:28:59 PM - Cancer Risk - Input File: C:\Users\Jfahrne\ Desktop\HARI

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	RISK_SUM	SCENARIO	DETAILS
1			9901	DieselExhP	0.00294	1.69E-06	8YrCancerI	*

P\UWSP_Tier 4_Max Receptor_HRAInput.hra

[illegible]

PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVE	PASTURE_C	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/7/2024 2:28:59 PM - Chronic Risk - Input File: C:\Users\Ufahrne\Deskto\HAR

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExhP	0.00294	NonCancer	0.00E+00	0.00E+00

I:\UWSP_Tier 4_Max Receptor_HRAInput.hra

IMMUN	KIDNEY	GILV	REPRO/DE\RESP	SKIN	EYE	BONE/TEET ENDO		
0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MMILK_DO	WATER_DO
0.00E+00	0.00E+00	0.00E+00	*	2.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVE	2ND_DRIVE
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	NA

3RD_DRIVE	PASTURE_C	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/7/2024 2:28:59 PM - Acute Risk - Input File: C:\Users\Jfahrney\Desktop\HARP\

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExhP	0.17698	NonCancer	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	UWSP Operational HRA
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	OTHER
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.SFC
ME	PROFFILE	Profile met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	UWSP Construction HRA
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	I:\Projects\Active\Sacramento County\Upper Westside\HRA\Construction HRA\April 2023 Remodel\AERMOD\SACINT~1.SFC
ME	PROFFILE	Profile met file	I:\Projects\Active\Sacramento County\Upper Westside\HRA\Construction HRA\April 2023 Remodel\AERMOD\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

Tier 4 Mitigation - On-site Receptor

OU	DAYTABLE	Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
7NL8T001	VOLUME		626470.7	4273814.1	0	0.00000598612424	(g/s)	5
7NL8T002	VOLUME		626534.3	4273814.1	0	0.00000598612424	(g/s)	5
7NL8T003	VOLUME		626597.9	4273814.1	0	0.00000598612424	(g/s)	5
7NL8T004	VOLUME		626661.5	4273814.1	0	0.00000598612424	(g/s)	5
7NL8T005	VOLUME		626407.1	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T006	VOLUME		626470.7	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T007	VOLUME		626534.3	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T008	VOLUME		626597.9	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T009	VOLUME		626661.5	4273877.7	0	0.00000598612424	(g/s)	5
7NL8T00A	VOLUME		626343.5	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00B	VOLUME		626407.1	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00C	VOLUME		626470.7	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00D	VOLUME		626534.3	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00E	VOLUME		626597.9	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00F	VOLUME		626661.5	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00G	VOLUME		626725.1	4273941.3	0	0.00000598612424	(g/s)	5
7NL8T00H	VOLUME		626279.8	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00I	VOLUME		626343.5	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00J	VOLUME		626407.1	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00K	VOLUME		626470.7	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00L	VOLUME		626534.3	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00M	VOLUME		626597.9	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00N	VOLUME		626661.5	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00O	VOLUME		626725.1	4274005.0	0	0.00000598612424	(g/s)	5
7NL8T00P	VOLUME		626216.2	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00Q	VOLUME		626279.8	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00R	VOLUME		626343.5	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00S	VOLUME		626407.1	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00T	VOLUME		626470.7	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00U	VOLUME		626534.3	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00V	VOLUME		626597.9	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00W	VOLUME		626661.5	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00X	VOLUME		626725.1	4274068.6	0	0.00000598612424	(g/s)	5
7NL8T00Y	VOLUME		626788.8	4274068.6	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T00Z	VOLUME		626152.6	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T010	VOLUME		626216.2	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T011	VOLUME		626279.8	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T012	VOLUME		626343.5	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T013	VOLUME		626407.1	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T014	VOLUME		626470.7	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T015	VOLUME		626534.3	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T016	VOLUME		626597.9	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T017	VOLUME		626661.5	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T018	VOLUME		626725.1	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T019	VOLUME		626788.8	4274132.2	0	0.00000598612424	(g/s)	5
7NL8T01A	VOLUME		626025.4	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01B	VOLUME		626089.0	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01C	VOLUME		626152.6	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01D	VOLUME		626216.2	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01E	VOLUME		626279.8	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01F	VOLUME		626343.5	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01G	VOLUME		626407.1	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01H	VOLUME		626470.7	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01I	VOLUME		626534.3	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01J	VOLUME		626597.9	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01K	VOLUME		626661.5	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01L	VOLUME		626725.1	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01M	VOLUME		626788.8	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01N	VOLUME		626852.4	4274195.8	0	0.00000598612424	(g/s)	5
7NL8T01O	VOLUME		626025.4	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01P	VOLUME		626089.0	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01Q	VOLUME		626152.6	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01R	VOLUME		626216.2	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01S	VOLUME		626279.8	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01T	VOLUME		626343.5	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01U	VOLUME		626407.1	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01V	VOLUME		626470.7	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01W	VOLUME		626534.3	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01X	VOLUME		626597.9	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01Y	VOLUME		626661.5	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T01Z	VOLUME		626725.1	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T020	VOLUME		626788.8	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T021	VOLUME		626852.4	4274259.4	0	0.00000598612424	(g/s)	5
7NL8T022	VOLUME		626025.4	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T023	VOLUME		626089.0	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T024	VOLUME		626152.6	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T025	VOLUME		626216.2	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T026	VOLUME		626279.8	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T027	VOLUME		626343.5	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T028	VOLUME		626407.1	4274323.0	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T029	VOLUME		626470.7	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02A	VOLUME		626534.3	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02B	VOLUME		626597.9	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02C	VOLUME		626661.5	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02D	VOLUME		626725.1	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02E	VOLUME		626788.8	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02F	VOLUME		626852.4	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02G	VOLUME		626916.0	4274323.0	0	0.00000598612424	(g/s)	5
7NL8T02H	VOLUME		625961.8	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02I	VOLUME		626025.4	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02J	VOLUME		626089.0	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02K	VOLUME		626152.6	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02L	VOLUME		626216.2	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02M	VOLUME		626279.8	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02N	VOLUME		626343.5	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02O	VOLUME		626407.1	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02P	VOLUME		626470.7	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02Q	VOLUME		626534.3	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02R	VOLUME		626597.9	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02S	VOLUME		626661.5	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02T	VOLUME		626725.1	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02U	VOLUME		626788.8	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02V	VOLUME		626852.4	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02W	VOLUME		626916.0	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02X	VOLUME		626979.6	4274386.7	0	0.00000598612424	(g/s)	5
7NL8T02Y	VOLUME		625961.8	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T02Z	VOLUME		626025.4	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T030	VOLUME		626089.0	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T031	VOLUME		626152.6	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T032	VOLUME		626216.2	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T033	VOLUME		626279.8	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T034	VOLUME		626343.5	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T035	VOLUME		626407.1	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T036	VOLUME		626470.7	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T037	VOLUME		626534.3	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T038	VOLUME		626597.9	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T039	VOLUME		626661.5	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03A	VOLUME		626725.1	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03B	VOLUME		626788.8	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03C	VOLUME		626852.4	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03D	VOLUME		626916.0	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03E	VOLUME		626979.6	4274450.3	0	0.00000598612424	(g/s)	5
7NL8T03F	VOLUME		625898.1	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03G	VOLUME		625961.8	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03H	VOLUME		626025.4	4274513.9	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T03I	VOLUME		626089.0	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03J	VOLUME		626152.6	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03K	VOLUME		626216.2	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03L	VOLUME		626279.8	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03M	VOLUME		626343.5	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03N	VOLUME		626407.1	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03O	VOLUME		626470.7	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03P	VOLUME		626534.3	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03Q	VOLUME		626597.9	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03R	VOLUME		626661.5	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03S	VOLUME		626725.1	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03T	VOLUME		626788.8	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03U	VOLUME		626852.4	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03V	VOLUME		626916.0	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03W	VOLUME		626979.6	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03X	VOLUME		627043.2	4274513.9	0	0.00000598612424	(g/s)	5
7NL8T03Y	VOLUME		625898.1	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T03Z	VOLUME		625961.8	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T040	VOLUME		626025.4	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T041	VOLUME		626089.0	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T042	VOLUME		626152.6	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T043	VOLUME		626216.2	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T044	VOLUME		626279.8	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T045	VOLUME		626343.5	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T046	VOLUME		626407.1	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T047	VOLUME		626470.7	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T048	VOLUME		626534.3	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T049	VOLUME		626597.9	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04A	VOLUME		626661.5	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04B	VOLUME		626725.1	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04C	VOLUME		626788.8	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04D	VOLUME		626852.4	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04E	VOLUME		626916.0	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04F	VOLUME		626979.6	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04G	VOLUME		627043.2	4274577.5	0	0.00000598612424	(g/s)	5
7NL8T04H	VOLUME		625834.5	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04I	VOLUME		625898.1	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04J	VOLUME		625961.8	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04K	VOLUME		626025.4	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04L	VOLUME		626089.0	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04M	VOLUME		626152.6	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04N	VOLUME		626216.2	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04O	VOLUME		626279.8	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04P	VOLUME		626343.5	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04Q	VOLUME		626407.1	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04R	VOLUME		626470.7	4274641.1	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T04S	VOLUME		626534.3	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04T	VOLUME		626597.9	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04U	VOLUME		626661.5	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04V	VOLUME		626725.1	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04W	VOLUME		626788.8	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04X	VOLUME		626852.4	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04Y	VOLUME		626916.0	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T04Z	VOLUME		626979.6	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T050	VOLUME		627043.2	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T051	VOLUME		627106.8	4274641.1	0	0.00000598612424	(g/s)	5
7NL8T052	VOLUME		625834.5	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T053	VOLUME		625898.1	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T054	VOLUME		625961.8	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T055	VOLUME		626025.4	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T056	VOLUME		626089.0	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T057	VOLUME		626152.6	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T058	VOLUME		626216.2	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T059	VOLUME		626279.8	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05A	VOLUME		626343.5	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05B	VOLUME		626407.1	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05C	VOLUME		626470.7	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05D	VOLUME		626534.3	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05E	VOLUME		626597.9	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05F	VOLUME		626661.5	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05G	VOLUME		626725.1	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05H	VOLUME		626788.8	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05I	VOLUME		626852.4	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05J	VOLUME		626916.0	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05K	VOLUME		626979.6	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05L	VOLUME		627043.2	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05M	VOLUME		627106.8	4274704.7	0	0.00000598612424	(g/s)	5
7NL8T05N	VOLUME		625834.5	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05O	VOLUME		625898.1	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05P	VOLUME		625961.8	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05Q	VOLUME		626025.4	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05R	VOLUME		626089.0	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05S	VOLUME		626152.6	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05T	VOLUME		626216.2	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05U	VOLUME		626279.8	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05V	VOLUME		626343.5	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05W	VOLUME		626407.1	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05X	VOLUME		626470.7	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05Y	VOLUME		626534.3	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T05Z	VOLUME		626597.9	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T060	VOLUME		626661.5	4274768.3	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T061	VOLUME		626725.1	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T062	VOLUME		626788.8	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T063	VOLUME		626852.4	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T064	VOLUME		626916.0	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T065	VOLUME		626979.6	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T066	VOLUME		627043.2	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T067	VOLUME		627106.8	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T068	VOLUME		627170.4	4274768.3	0	0.00000598612424	(g/s)	5
7NL8T069	VOLUME		625770.9	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06A	VOLUME		625834.5	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06B	VOLUME		625898.1	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06C	VOLUME		625961.8	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06D	VOLUME		626025.4	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06E	VOLUME		626089.0	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06F	VOLUME		626152.6	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06G	VOLUME		626216.2	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06H	VOLUME		626279.8	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06I	VOLUME		626343.5	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06J	VOLUME		626407.1	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06K	VOLUME		626470.7	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06L	VOLUME		626534.3	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06M	VOLUME		626597.9	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06N	VOLUME		626661.5	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06O	VOLUME		626725.1	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06P	VOLUME		626788.8	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06Q	VOLUME		626852.4	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06R	VOLUME		626916.0	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06S	VOLUME		626979.6	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06T	VOLUME		627043.2	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06U	VOLUME		627106.8	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06V	VOLUME		627170.4	4274832.0	0	0.00000598612424	(g/s)	5
7NL8T06W	VOLUME		625770.9	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T06X	VOLUME		625834.5	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T06Y	VOLUME		625898.1	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T06Z	VOLUME		625961.8	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T070	VOLUME		626025.4	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T071	VOLUME		626089.0	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T072	VOLUME		626152.6	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T073	VOLUME		626216.2	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T074	VOLUME		626279.8	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T075	VOLUME		626343.5	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T076	VOLUME		626407.1	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T077	VOLUME		626470.7	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T078	VOLUME		626534.3	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T079	VOLUME		626597.9	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07A	VOLUME		626661.5	4274895.6	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T07B	VOLUME		626725.1	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07C	VOLUME		626788.8	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07D	VOLUME		626852.4	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07E	VOLUME		626916.0	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07F	VOLUME		626979.6	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07G	VOLUME		627043.2	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07H	VOLUME		627106.8	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07I	VOLUME		627170.4	4274895.6	0	0.00000598612424	(g/s)	5
7NL8T07J	VOLUME		625770.9	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07K	VOLUME		625834.5	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07L	VOLUME		625898.1	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07M	VOLUME		625961.8	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07N	VOLUME		626025.4	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07O	VOLUME		626089.0	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07P	VOLUME		626152.6	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07Q	VOLUME		626216.2	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07R	VOLUME		626279.8	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07S	VOLUME		626343.5	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07T	VOLUME		626407.1	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07U	VOLUME		626470.7	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07V	VOLUME		626534.3	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07W	VOLUME		626597.9	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07X	VOLUME		626661.5	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07Y	VOLUME		626725.1	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T07Z	VOLUME		626788.8	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T080	VOLUME		626852.4	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T081	VOLUME		626916.0	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T082	VOLUME		626979.6	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T083	VOLUME		627043.2	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T084	VOLUME		627106.8	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T085	VOLUME		627170.4	4274959.2	0	0.00000598612424	(g/s)	5
7NL8T086	VOLUME		625770.9	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T087	VOLUME		625834.5	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T088	VOLUME		625898.1	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T089	VOLUME		625961.8	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08A	VOLUME		626025.4	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08B	VOLUME		626089.0	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08C	VOLUME		626152.6	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08D	VOLUME		626216.2	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08E	VOLUME		626279.8	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08F	VOLUME		626343.5	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08G	VOLUME		626407.1	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08H	VOLUME		626470.7	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08I	VOLUME		626534.3	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08J	VOLUME		626597.9	4275022.8	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T08K	VOLUME		626661.5	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08L	VOLUME		626725.1	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08M	VOLUME		626788.8	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08N	VOLUME		626852.4	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08O	VOLUME		626916.0	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08P	VOLUME		626979.6	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08Q	VOLUME		627043.2	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08R	VOLUME		627106.8	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08S	VOLUME		627170.4	4275022.8	0	0.00000598612424	(g/s)	5
7NL8T08T	VOLUME		625770.9	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08U	VOLUME		625834.5	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08V	VOLUME		625898.1	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08W	VOLUME		625961.8	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08X	VOLUME		626025.4	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08Y	VOLUME		626089.0	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T08Z	VOLUME		626152.6	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T090	VOLUME		626216.2	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T091	VOLUME		626279.8	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T092	VOLUME		626343.5	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T093	VOLUME		626407.1	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T094	VOLUME		626470.7	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T095	VOLUME		626534.3	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T096	VOLUME		626597.9	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T097	VOLUME		626661.5	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T098	VOLUME		626725.1	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T099	VOLUME		626788.8	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09A	VOLUME		626852.4	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09B	VOLUME		626916.0	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09C	VOLUME		626979.6	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09D	VOLUME		627043.2	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09E	VOLUME		627106.8	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09F	VOLUME		627170.4	4275086.4	0	0.00000598612424	(g/s)	5
7NL8T09G	VOLUME		625770.9	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09H	VOLUME		625834.5	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09I	VOLUME		625898.1	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09J	VOLUME		625961.8	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09K	VOLUME		626025.4	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09L	VOLUME		626089.0	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09M	VOLUME		626152.6	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09N	VOLUME		626216.2	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09O	VOLUME		626279.8	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09P	VOLUME		626343.5	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09Q	VOLUME		626407.1	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09R	VOLUME		626470.7	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09S	VOLUME		626534.3	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09T	VOLUME		626597.9	4275150.0	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T09U	VOLUME		626661.5	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09V	VOLUME		626725.1	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09W	VOLUME		626788.8	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09X	VOLUME		626852.4	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09Y	VOLUME		626916.0	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T09Z	VOLUME		626979.6	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T0A0	VOLUME		627043.2	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T0A1	VOLUME		627106.8	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T0A2	VOLUME		627170.4	4275150.0	0	0.00000598612424	(g/s)	5
7NL8T0A3	VOLUME		625770.9	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A4	VOLUME		625834.5	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A5	VOLUME		625898.1	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A6	VOLUME		625961.8	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A7	VOLUME		626025.4	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A8	VOLUME		626089.0	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0A9	VOLUME		626152.6	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AA	VOLUME		626216.2	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AB	VOLUME		626279.8	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AC	VOLUME		626343.5	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AD	VOLUME		626407.1	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AE	VOLUME		626470.7	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AF	VOLUME		626534.3	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AG	VOLUME		626597.9	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AH	VOLUME		626661.5	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AI	VOLUME		626725.1	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AJ	VOLUME		626788.8	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AK	VOLUME		626852.4	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AL	VOLUME		626916.0	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AM	VOLUME		626979.6	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AN	VOLUME		627043.2	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AO	VOLUME		627106.8	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AP	VOLUME		627170.4	4275213.6	0	0.00000598612424	(g/s)	5
7NL8T0AQ	VOLUME		626025.4	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AR	VOLUME		626089.0	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AS	VOLUME		626152.6	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AT	VOLUME		626216.2	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AU	VOLUME		626279.8	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AV	VOLUME		626343.5	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AW	VOLUME		626407.1	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AX	VOLUME		626470.7	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AY	VOLUME		626534.3	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0AZ	VOLUME		626597.9	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B0	VOLUME		626661.5	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B1	VOLUME		626725.1	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B2	VOLUME		626788.8	4275277.3	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T0B3	VOLUME		626852.4	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B4	VOLUME		626916.0	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B5	VOLUME		626979.6	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B6	VOLUME		627043.2	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B7	VOLUME		627106.8	4275277.3	0	0.00000598612424	(g/s)	5
7NL8T0B8	VOLUME		626089.0	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0B9	VOLUME		626152.6	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BA	VOLUME		626216.2	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BB	VOLUME		626279.8	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BC	VOLUME		626343.5	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BD	VOLUME		626407.1	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BE	VOLUME		626470.7	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BF	VOLUME		626534.3	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BG	VOLUME		626597.9	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BH	VOLUME		626661.5	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BI	VOLUME		626725.1	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BJ	VOLUME		626788.8	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BK	VOLUME		626852.4	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BL	VOLUME		626916.0	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BM	VOLUME		626979.6	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BN	VOLUME		627043.2	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BO	VOLUME		627106.8	4275340.9	0	0.00000598612424	(g/s)	5
7NL8T0BP	VOLUME		626089.0	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BQ	VOLUME		626152.6	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BR	VOLUME		626216.2	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BS	VOLUME		626279.8	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BT	VOLUME		626343.5	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BU	VOLUME		626407.1	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BV	VOLUME		626470.7	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BW	VOLUME		626534.3	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BX	VOLUME		626597.9	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BY	VOLUME		626661.5	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0BZ	VOLUME		626725.1	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C0	VOLUME		626788.8	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C1	VOLUME		626852.4	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C2	VOLUME		626916.0	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C3	VOLUME		626979.6	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C4	VOLUME		627043.2	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C5	VOLUME		627106.8	4275404.5	0	0.00000598612424	(g/s)	5
7NL8T0C6	VOLUME		626089.0	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0C7	VOLUME		626152.6	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0C8	VOLUME		626216.2	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0C9	VOLUME		626279.8	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CA	VOLUME		626343.5	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CB	VOLUME		626407.1	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CC	VOLUME		626470.7	4275468.1	0	0.00000598612424	(g/s)	5

Tier 4 Mitigation - On-site Receptor

7NL8T0CD	VOLUME		626534.3	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CE	VOLUME		626597.9	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CF	VOLUME		626661.5	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CG	VOLUME		626725.1	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CH	VOLUME		626788.8	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CI	VOLUME		626852.4	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CJ	VOLUME		626916.0	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CK	VOLUME		626979.6	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CL	VOLUME		627043.2	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CM	VOLUME		627106.8	4275468.1	0	0.00000598612424	(g/s)	5
7NL8T0CN	VOLUME		626152.6	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CO	VOLUME		626216.2	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CP	VOLUME		626279.8	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CQ	VOLUME		626343.5	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CR	VOLUME		626407.1	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CS	VOLUME		626470.7	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CT	VOLUME		626534.3	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CU	VOLUME		626597.9	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CV	VOLUME		626661.5	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CW	VOLUME		626725.1	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CX	VOLUME		626788.8	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CY	VOLUME		626852.4	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0CZ	VOLUME		626916.0	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0D0	VOLUME		626979.6	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0D1	VOLUME		627043.2	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0D2	VOLUME		627106.8	4275531.7	0	0.00000598612424	(g/s)	5
7NL8T0D3	VOLUME		626152.6	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D4	VOLUME		626216.2	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D5	VOLUME		626279.8	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D6	VOLUME		626343.5	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D7	VOLUME		626407.1	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D8	VOLUME		626470.7	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0D9	VOLUME		626534.3	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DA	VOLUME		626597.9	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DB	VOLUME		626661.5	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DC	VOLUME		626725.1	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DD	VOLUME		626788.8	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DE	VOLUME		626852.4	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DF	VOLUME		626916.0	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DG	VOLUME		626979.6	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DH	VOLUME		627043.2	4275595.3	0	0.00000598612424	(g/s)	5
7NL8T0DI	VOLUME		627106.8	4275595.3	0	0.00000598612424	(g/s)	5

Volume Sources

Tier 4 Mitigation - On-site Receptor

Source ID / Pollutant ID	Description	UTM		Elev. (m)	Emiss. Rate (g/s)	Release Height (m)	Init. Lat. Dim. (m)	Init. Vert. Dim. (m)
		East (m)	North (m)					
7NL8T001		626470.7	4273814.1	0	0.00000598612424	5	29.59	1
7NL8T002		626534.3	4273814.1	0	0.00000598612424	5	29.59	1
7NL8T003		626597.9	4273814.1	0	0.00000598612424	5	29.59	1
7NL8T004		626661.5	4273814.1	0	0.00000598612424	5	29.59	1
7NL8T005		626407.1	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T006		626470.7	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T007		626534.3	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T008		626597.9	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T009		626661.5	4273877.7	0	0.00000598612424	5	29.59	1
7NL8T00A		626343.5	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00B		626407.1	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00C		626470.7	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00D		626534.3	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00E		626597.9	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00F		626661.5	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00G		626725.1	4273941.3	0	0.00000598612424	5	29.59	1
7NL8T00H		626279.8	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00I		626343.5	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00J		626407.1	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00K		626470.7	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00L		626534.3	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00M		626597.9	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00N		626661.5	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00O		626725.1	4274005.0	0	0.00000598612424	5	29.59	1
7NL8T00P		626216.2	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00Q		626279.8	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00R		626343.5	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00S		626407.1	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00T		626470.7	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00U		626534.3	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00V		626597.9	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00W		626661.5	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00X		626725.1	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00Y		626788.8	4274068.6	0	0.00000598612424	5	29.59	1
7NL8T00Z		626152.6	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T010		626216.2	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T011		626279.8	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T012		626343.5	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T013		626407.1	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T014		626470.7	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T015		626534.3	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T016		626597.9	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T017		626661.5	4274132.2	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T018		626725.1	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T019		626788.8	4274132.2	0	0.00000598612424	5	29.59	1
7NL8T01A		626025.4	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01B		626089.0	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01C		626152.6	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01D		626216.2	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01E		626279.8	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01F		626343.5	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01G		626407.1	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01H		626470.7	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01I		626534.3	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01J		626597.9	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01K		626661.5	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01L		626725.1	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01M		626788.8	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01N		626852.4	4274195.8	0	0.00000598612424	5	29.59	1
7NL8T01O		626025.4	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01P		626089.0	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01Q		626152.6	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01R		626216.2	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01S		626279.8	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01T		626343.5	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01U		626407.1	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01V		626470.7	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01W		626534.3	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01X		626597.9	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01Y		626661.5	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T01Z		626725.1	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T020		626788.8	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T021		626852.4	4274259.4	0	0.00000598612424	5	29.59	1
7NL8T022		626025.4	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T023		626089.0	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T024		626152.6	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T025		626216.2	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T026		626279.8	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T027		626343.5	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T028		626407.1	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T029		626470.7	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02A		626534.3	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02B		626597.9	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02C		626661.5	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02D		626725.1	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02E		626788.8	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02F		626852.4	4274323.0	0	0.00000598612424	5	29.59	1
7NL8T02G		626916.0	4274323.0	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T02H		625961.8	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02I		626025.4	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02J		626089.0	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02K		626152.6	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02L		626216.2	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02M		626279.8	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02N		626343.5	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02O		626407.1	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02P		626470.7	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02Q		626534.3	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02R		626597.9	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02S		626661.5	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02T		626725.1	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02U		626788.8	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02V		626852.4	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02W		626916.0	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02X		626979.6	4274386.7	0	0.00000598612424	5	29.59	1
7NL8T02Y		625961.8	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T02Z		626025.4	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T030		626089.0	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T031		626152.6	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T032		626216.2	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T033		626279.8	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T034		626343.5	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T035		626407.1	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T036		626470.7	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T037		626534.3	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T038		626597.9	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T039		626661.5	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03A		626725.1	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03B		626788.8	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03C		626852.4	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03D		626916.0	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03E		626979.6	4274450.3	0	0.00000598612424	5	29.59	1
7NL8T03F		625898.1	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03G		625961.8	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03H		626025.4	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03I		626089.0	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03J		626152.6	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03K		626216.2	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03L		626279.8	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03M		626343.5	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03N		626407.1	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03O		626470.7	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03P		626534.3	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03Q		626597.9	4274513.9	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T03R		626661.5	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03S		626725.1	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03T		626788.8	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03U		626852.4	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03V		626916.0	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03W		626979.6	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03X		627043.2	4274513.9	0	0.00000598612424	5	29.59	1
7NL8T03Y		625898.1	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T03Z		625961.8	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T040		626025.4	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T041		626089.0	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T042		626152.6	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T043		626216.2	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T044		626279.8	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T045		626343.5	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T046		626407.1	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T047		626470.7	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T048		626534.3	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T049		626597.9	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04A		626661.5	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04B		626725.1	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04C		626788.8	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04D		626852.4	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04E		626916.0	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04F		626979.6	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04G		627043.2	4274577.5	0	0.00000598612424	5	29.59	1
7NL8T04H		625834.5	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04I		625898.1	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04J		625961.8	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04K		626025.4	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04L		626089.0	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04M		626152.6	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04N		626216.2	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04O		626279.8	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04P		626343.5	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04Q		626407.1	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04R		626470.7	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04S		626534.3	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04T		626597.9	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04U		626661.5	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04V		626725.1	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04W		626788.8	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04X		626852.4	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04Y		626916.0	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T04Z		626979.6	4274641.1	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T050		627043.2	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T051		627106.8	4274641.1	0	0.00000598612424	5	29.59	1
7NL8T052		625834.5	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T053		625898.1	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T054		625961.8	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T055		626025.4	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T056		626089.0	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T057		626152.6	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T058		626216.2	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T059		626279.8	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05A		626343.5	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05B		626407.1	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05C		626470.7	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05D		626534.3	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05E		626597.9	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05F		626661.5	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05G		626725.1	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05H		626788.8	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05I		626852.4	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05J		626916.0	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05K		626979.6	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05L		627043.2	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05M		627106.8	4274704.7	0	0.00000598612424	5	29.59	1
7NL8T05N		625834.5	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05O		625898.1	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05P		625961.8	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05Q		626025.4	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05R		626089.0	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05S		626152.6	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05T		626216.2	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05U		626279.8	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05V		626343.5	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05W		626407.1	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05X		626470.7	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05Y		626534.3	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T05Z		626597.9	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T060		626661.5	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T061		626725.1	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T062		626788.8	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T063		626852.4	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T064		626916.0	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T065		626979.6	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T066		627043.2	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T067		627106.8	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T068		627170.4	4274768.3	0	0.00000598612424	5	29.59	1
7NL8T069		625770.9	4274832.0	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T06A		625834.5	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06B		625898.1	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06C		625961.8	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06D		626025.4	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06E		626089.0	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06F		626152.6	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06G		626216.2	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06H		626279.8	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06I		626343.5	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06J		626407.1	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06K		626470.7	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06L		626534.3	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06M		626597.9	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06N		626661.5	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06O		626725.1	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06P		626788.8	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06Q		626852.4	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06R		626916.0	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06S		626979.6	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06T		627043.2	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06U		627106.8	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06V		627170.4	4274832.0	0	0.00000598612424	5	29.59	1
7NL8T06W		625770.9	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T06X		625834.5	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T06Y		625898.1	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T06Z		625961.8	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T070		626025.4	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T071		626089.0	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T072		626152.6	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T073		626216.2	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T074		626279.8	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T075		626343.5	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T076		626407.1	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T077		626470.7	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T078		626534.3	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T079		626597.9	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07A		626661.5	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07B		626725.1	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07C		626788.8	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07D		626852.4	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07E		626916.0	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07F		626979.6	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07G		627043.2	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07H		627106.8	4274895.6	0	0.00000598612424	5	29.59	1
7NL8T07I		627170.4	4274895.6	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T07J		625770.9	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07K		625834.5	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07L		625898.1	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07M		625961.8	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07N		626025.4	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07O		626089.0	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07P		626152.6	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07Q		626216.2	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07R		626279.8	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07S		626343.5	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07T		626407.1	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07U		626470.7	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07V		626534.3	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07W		626597.9	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07X		626661.5	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07Y		626725.1	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T07Z		626788.8	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T080		626852.4	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T081		626916.0	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T082		626979.6	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T083		627043.2	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T084		627106.8	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T085		627170.4	4274959.2	0	0.00000598612424	5	29.59	1
7NL8T086		625770.9	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T087		625834.5	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T088		625898.1	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T089		625961.8	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08A		626025.4	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08B		626089.0	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08C		626152.6	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08D		626216.2	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08E		626279.8	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08F		626343.5	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08G		626407.1	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08H		626470.7	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08I		626534.3	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08J		626597.9	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08K		626661.5	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08L		626725.1	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08M		626788.8	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08N		626852.4	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08O		626916.0	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08P		626979.6	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08Q		627043.2	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08R		627106.8	4275022.8	0	0.00000598612424	5	29.59	1
7NL8T08S		627170.4	4275022.8	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T08T		625770.9	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08U		625834.5	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08V		625898.1	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08W		625961.8	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08X		626025.4	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08Y		626089.0	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T08Z		626152.6	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T090		626216.2	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T091		626279.8	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T092		626343.5	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T093		626407.1	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T094		626470.7	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T095		626534.3	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T096		626597.9	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T097		626661.5	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T098		626725.1	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T099		626788.8	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09A		626852.4	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09B		626916.0	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09C		626979.6	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09D		627043.2	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09E		627106.8	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09F		627170.4	4275086.4	0	0.00000598612424	5	29.59	1
7NL8T09G		625770.9	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09H		625834.5	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09I		625898.1	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09J		625961.8	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09K		626025.4	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09L		626089.0	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09M		626152.6	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09N		626216.2	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09O		626279.8	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09P		626343.5	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09Q		626407.1	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09R		626470.7	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09S		626534.3	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09T		626597.9	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09U		626661.5	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09V		626725.1	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09W		626788.8	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09X		626852.4	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09Y		626916.0	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T09Z		626979.6	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T0A0		627043.2	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T0A1		627106.8	4275150.0	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T0A2		627170.4	4275150.0	0	0.00000598612424	5	29.59	1
7NL8T0A3		625770.9	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A4		625834.5	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A5		625898.1	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A6		625961.8	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A7		626025.4	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A8		626089.0	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0A9		626152.6	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AA		626216.2	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AB		626279.8	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AC		626343.5	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AD		626407.1	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AE		626470.7	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AF		626534.3	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AG		626597.9	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AH		626661.5	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AI		626725.1	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AJ		626788.8	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AK		626852.4	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AL		626916.0	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AM		626979.6	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AN		627043.2	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AO		627106.8	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AP		627170.4	4275213.6	0	0.00000598612424	5	29.59	1
7NL8T0AQ		626025.4	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AR		626089.0	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AS		626152.6	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AT		626216.2	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AU		626279.8	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AV		626343.5	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AW		626407.1	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AX		626470.7	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AY		626534.3	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0AZ		626597.9	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B0		626661.5	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B1		626725.1	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B2		626788.8	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B3		626852.4	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B4		626916.0	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B5		626979.6	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B6		627043.2	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B7		627106.8	4275277.3	0	0.00000598612424	5	29.59	1
7NL8T0B8		626089.0	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0B9		626152.6	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BA		626216.2	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BB		626279.8	4275340.9	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T0BC		626343.5	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BD		626407.1	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BE		626470.7	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BF		626534.3	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BG		626597.9	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BH		626661.5	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BI		626725.1	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BJ		626788.8	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BK		626852.4	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BL		626916.0	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BM		626979.6	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BN		627043.2	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BO		627106.8	4275340.9	0	0.00000598612424	5	29.59	1
7NL8T0BP		626089.0	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BQ		626152.6	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BR		626216.2	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BS		626279.8	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BT		626343.5	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BU		626407.1	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BV		626470.7	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BW		626534.3	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BX		626597.9	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BY		626661.5	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0BZ		626725.1	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C0		626788.8	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C1		626852.4	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C2		626916.0	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C3		626979.6	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C4		627043.2	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C5		627106.8	4275404.5	0	0.00000598612424	5	29.59	1
7NL8T0C6		626089.0	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0C7		626152.6	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0C8		626216.2	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0C9		626279.8	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CA		626343.5	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CB		626407.1	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CC		626470.7	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CD		626534.3	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CE		626597.9	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CF		626661.5	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CG		626725.1	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CH		626788.8	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CI		626852.4	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CJ		626916.0	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CK		626979.6	4275468.1	0	0.00000598612424	5	29.59	1

Tier 4 Mitigation - On-site Receptor

7NL8T0CL		627043.2	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CM		627106.8	4275468.1	0	0.00000598612424	5	29.59	1
7NL8T0CN		626152.6	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CO		626216.2	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CP		626279.8	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CQ		626343.5	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CR		626407.1	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CS		626470.7	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CT		626534.3	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CU		626597.9	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CV		626661.5	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CW		626725.1	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CX		626788.8	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CY		626852.4	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0CZ		626916.0	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0D0		626979.6	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0D1		627043.2	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0D2		627106.8	4275531.7	0	0.00000598612424	5	29.59	1
7NL8T0D3		626152.6	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D4		626216.2	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D5		626279.8	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D6		626343.5	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D7		626407.1	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D8		626470.7	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0D9		626534.3	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DA		626597.9	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DB		626661.5	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DC		626725.1	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DD		626788.8	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DE		626852.4	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DF		626916.0	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DG		626979.6	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DH		627043.2	4275595.3	0	0.00000598612424	5	29.59	1
7NL8T0DI		627106.8	4275595.3	0	0.00000598612424	5	29.59	1

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
			East (m)	North (m)	(m)	(m)	(m)		
ALL	1ST	0.00480	626496.90	4274799.00	0.00	0.00	1.80	DC	
	2ND	0.00479	626496.90	4274804.00	0.00	0.00	1.80	DC	
	3RD	0.00479	626501.90	4274799.00	0.00	0.00	1.80	DC	
	4TH	0.00478	626506.90	4274799.00	0.00	0.00	1.80	DC	
	5TH	0.00478	626501.90	4274804.00	0.00	0.00	1.80	DC	
	6TH	0.00478	626506.90	4274804.00	0.00	0.00	1.80	DC	
	7TH	0.00000	0.00	0.00	0.00	0.00	0.00		
	8TH	0.00000	0.00	0.00	0.00	0.00	0.00		
	9TH	0.00000	0.00	0.00	0.00	0.00	0.00		
	10TH	0.00000	0.00	0.00	0.00	0.00	0.00		

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev.	Hill Ht.	Flag Ht.	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	0.18655	ug/m**3	15040807	626496.90	4274804.00	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H

Tier 4 Mitigation - On-site Receptor

WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H
WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

www.breeze-software.com

*HARP - HRACalc v22118 2/7/2024 2:29:45 PM - Cancer Risk - Input File: C:\Users\Jfahrne\\Desktop\HARI

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	RISK_SUM	SCENARIO	DETAILS
1			9901	DieselExhP	0.0048	2.76E-06	8YrCancerI	*

P\UWSP_Tier 4_On Site_HRAInput.hra

[illegible]

PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVE	PASTURE_C	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/7/2024 2:29:45 PM - Chronic Risk - Input File: C:\Users\Ufahrne\Deskto\HAR

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExhP	0.0048	NonCancer	0.00E+00	0.00E+00

IP\UWSP_Tier 4_On Site_HRAInput.hra

IMMUN	KIDNEY	GILV	REPRO/DE\RESP	SKIN	EYE	BONE/TEET ENDO
0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MMILK_DO	WATER_DO
0.00E+00	0.00E+00	0.00E+00	*	4.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FISH_DOSE	CROP_DOS	BEEF_DOS	DAIRY_DOS	PIG_DOSE	CHICKEN_I	EGG_DOSE	1ST_DRIVE	2ND_DRIVE
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIO	NA

3RD_DRIVE	PASTURE_C	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 2/7/2024 2:29:45 PM - Acute Risk - Input File: C:\Users\Ufahrney\Desktop\HARP\

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExhP	0.18655	NonCancer	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00

OU	DAYTABLE	Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
61TMY003	POINT	2-LOAD	627193	4275178.7	0	5.659452E-05	(g/s)	3.66
N3LK2000	POINT	1-LOAD	627237.8	4275309.5	0	8.561735E-05	(g/s)	3.66
N3LK2001	POINT	1-BREATH	627237.8	4275309.5	0	2.548135E-05	(g/s)	3.66
N3LK2002	POINT	2-BREATH	627192.9	4275178.9	0	1.684361E-05	(g/s)	3.66
N3LK2003	VOLUME	1-REFUEL	627237.8	4275309.2	0	0.0007542481	(g/s)	1
N3LK2004	VOLUME	1-SPILL	627237.6	4275309.1	0	0.001426956	(g/s)	0
N3LK2005	VOLUME	2-REFUEL	627192.8	4275178.7	0	0.0004985708	(g/s)	1
N3LK2006	VOLUME	2-SPILL	627192.8	4275178.7	0	0.000943242	(g/s)	0

Point Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Stack Height	Stack Temp	Stack Velocity	Stack Diameter
		East (m)	North (m)	(m)	(g/s)	(m)	(K)	(m/s)	(m)
61TMY003	2-LOAD	627193	4275178.7	0	5.659452E-05	3.66	291	0.001382213	0.0508
N3LK2000	1-LOAD	627237.8	4275309.5	0	8.561735E-05	3.66	291	0.00209104	0.0508
N3LK2001	1-BREATH	627237.8	4275309.5	0	2.548135E-05	3.66	289	0.000622333	0.0508
N3LK2002	2-BREATH	627192.9	4275178.9	0	1.684361E-05	3.66	289	0.000411373	0.0508

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
N3LK2003	1-REFUEL	627237.8	4275309.2	0	0.0007542481	1	3.02	1.86
N3LK2004	1-SPILL	627237.6	4275309.1	0	0.001426956	0	3.02	1.86
N3LK2005	2-REFUEL	627192.8	4275178.7	0	0.0004985708	1	3.02	1.86
N3LK2006	2-SPILL	627192.8	4275178.7	0	0.000943242	0	3.02	1.86

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: OTHER (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
			East (m)	North (m)					
ALL	1ST	0.35754	627139.90	4275225.30	0.00	0.00	1.80	DC	
	2ND	0.35109	627139.90	4275245.30	0.00	0.00	1.80	DC	
	3RD	0.33714	627139.90	4275205.30	0.00	0.00	1.80	DC	
	4TH	0.32419	627139.90	4275265.30	0.00	0.00	1.80	DC	
	5TH	0.32124	627139.90	4275185.30	0.00	0.00	1.80	DC	
	6TH	0.29580	627139.90	4275285.30	0.00	0.00	1.80	DC	
	7TH	0.26928	627139.90	4275165.30	0.00	0.00	1.80	DC	
	8TH	0.23005	627119.90	4275245.30	0.00	0.00	1.80	DC	
	9TH	0.22925	627119.90	4275265.30	0.00	0.00	1.80	DC	
	10TH	0.22498	627139.90	4275145.30	0.00	0.00	1.80	DC	

Highest Results of Pollutant: OTHER

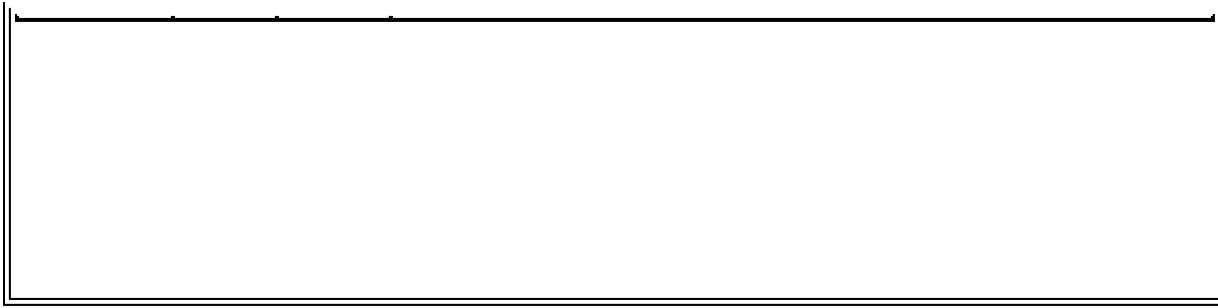
Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	19.89680	ug/m**3	15011908	627139.90	4275165.30	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
4	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50



www.breeze-software.com

*HARP - HRACalc v19044 7/28/2021 9:55:28 AM - Cancer Risk - Input File: C:\Users\bshea\Desktop\HARP\UWSP GDF 1 and 2_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK
1			71432	Benzene	0.35754	2.81E-05	30YrCancerHighEnd_Inh_FAH16to70	*	2.81E-05	0.00E+00

DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA

2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 7/28/2021 9:55:28 AM - Chronic Risk - Input File: C:\Users\bshea\Desktop\HARP\UWSP GDF 1 and 2_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV
1			71432	Benzene	0.35754	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-01	0.00E+00	0.00E+00	*	3.58E-01	0.00E+00

DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 7/28/2021 9:55:28 AM - Acute Risk - Input File: C:\Users\bshea\Desktop\HARP\UWSP GDF 1 and 2_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL
1			71432	Benzene	19.8968	NonCancerAcute	0.00E+00	0.00E+00	7.37E-01	0.00E+00	0.00E+00	7.37E-01

RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-01	0.00E+00	0.00E+00

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
			East (m)	North (m)					
ALL	1ST	0.16832	626671.80	4273845.50	0.00	0.00	1.80	DC	
	2ND	0.16807	626711.80	4273925.50	0.00	0.00	1.80	DC	
	3RD	0.15682	626691.80	4273905.50	0.00	0.00	1.80	DC	
	4TH	0.15674	626919.50	4274348.20	0.00	0.00	1.80	DC	
	5TH	0.15652	626651.80	4273825.50	0.00	0.00	1.80	DC	
	6TH	0.15650	626671.80	4273865.50	0.00	0.00	1.80	DC	
	7TH	0.15636	626939.50	4274388.20	0.00	0.00	1.80	DC	
	8TH	0.15497	626959.50	4274428.20	0.00	0.00	1.80	DC	
	9TH	0.15437	626979.50	4274468.20	0.00	0.00	1.80	DC	
	10TH	0.15303	626999.50	4274508.20	0.00	0.00	1.80	DC	

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	2.90988	ug/m**3	14121409	626482.10	4273243.40	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H
WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H

WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

www.breeze-software.com

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	UWSP I-80 HRA (Existing Conditions 2023)
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,24,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.SFC
ME	PROFFILE	Profile met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU	DAYTABLE	Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
M5C4S3FQ	VOLUME		627697.9	4275227.3	0	0.0004997734	(g/s)	4.4112
M5C4S3FR	VOLUME		627620.2	4275174.3	0	0.0004997734	(g/s)	4.4112
M5C4S3FS	VOLUME		627544.5	4275118.7	0	0.0004997734	(g/s)	4.4112
M5C4S3FT	VOLUME		627472.4	4275058.6	0	0.0004997734	(g/s)	4.4112
M5C4S3FU	VOLUME		627407.6	4274990.7	0	0.0004997734	(g/s)	4.4112
M5C4S3FV	VOLUME		627348.9	4274917.3	0	0.0004997734	(g/s)	4.4112
M5C4S3FW	VOLUME		627295.2	4274840.4	0	0.0004997734	(g/s)	4.4112
M5C4S3FX	VOLUME		627246.9	4274759.8	0	0.0004997734	(g/s)	4.4112
M5C4S3FY	VOLUME		627202.9	4274676.7	0	0.0004997734	(g/s)	4.4112
M5C4S3FZ	VOLUME		627159.3	4274593.4	0	0.0004997734	(g/s)	4.4112
M5C4S3G0	VOLUME		627115.7	4274510.1	0	0.0004997734	(g/s)	4.4112
M5C4S3G1	VOLUME		627072.1	4274426.8	0	0.0004997734	(g/s)	4.4112
M5C4S3G2	VOLUME		627028.5	4274343.6	0	0.0004997734	(g/s)	4.4112
M5C4S3G3	VOLUME		626984.9	4274260.3	0	0.0004997734	(g/s)	4.4112
M5C4S3G4	VOLUME		626941.3	4274177.0	0	0.0004997734	(g/s)	4.4112
M5C4S3G5	VOLUME		626897.7	4274093.7	0	0.0004997734	(g/s)	4.4112
M5C4S3G6	VOLUME		626854.1	4274010.5	0	0.0004997734	(g/s)	4.4112
M5C4S3G7	VOLUME		626810.5	4273927.2	0	0.0004997734	(g/s)	4.4112
M5C4S3G8	VOLUME		626766.9	4273843.9	0	0.0004997734	(g/s)	4.4112
M5C4S3G9	VOLUME		626723.3	4273760.6	0	0.0004997734	(g/s)	4.4112
M5C4S3GA	VOLUME		626679.7	4273677.4	0	0.0004997734	(g/s)	4.4112
M5C4S3GB	VOLUME		626636.1	4273594.1	0	0.0004997734	(g/s)	4.4112
M5C4S3GC	VOLUME		626592.5	4273510.8	0	0.0004997734	(g/s)	4.4112
M5C4S3GD	VOLUME		626548.9	4273427.5	0	0.0004997734	(g/s)	4.4112

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
M5C4S3FQ		627697.9	4275227.3	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3FR		627620.2	4275174.3	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3FS		627544.5	4275118.7	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3FT		627472.4	4275058.6	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3FU		627407.6	4274990.7	0	0.0004997734	4.4112	43.72093	4.103442

M5C4S3FV		627348.9	4274917.3	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3FW		627295.2	4274840.4	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3FX		627246.9	4274759.8	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3FY		627202.9	4274676.7	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3FZ		627159.3	4274593.4	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G0		627115.7	4274510.1	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G1		627072.1	4274426.8	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G2		627028.5	4274343.6	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G3		626984.9	4274260.3	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G4		626941.3	4274177.0	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G5		626897.7	4274093.7	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G6		626854.1	4274010.5	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G7		626810.5	4273927.2	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G8		626766.9	4273843.9	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3G9		626723.3	4273760.6	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3GA		626679.7	4273677.4	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3GB		626636.1	4273594.1	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3GC		626592.5	4273510.8	0	0.0004997734	4.4112	43.72093	4.103442
M5C4S3GD		626548.9	4273427.5	0	0.0004997734	4.4112	43.72093	4.103442

*HARP - HRACalc v22118 9/30/2022 9:06:34 AM - Cancer Risk - Input File: C:\Users\bshea\Desktop\HAI

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS
1			9901	DieselExhP	0.16832	1.46E-04	30YrCancel	*

RP results\UWSP Existing Conditions_HRAInput.hra

[illegible]

PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 9/30/2022 9:06:34 AM - Chronic Risk - Input File: C:\Users\bshea\Desktop\HA

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	SCENARIO	CV	CNS
1			9901	DieselExhP	0.16832	NonCancer	0.00E+00	0.00E+00

\\RP results\UWSP Existing Conditions_HRAInput.hra

IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEET	ENDO
0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MILK_DC	WATER_DC
0.00E+00	0.00E+00	0.00E+00	*	1.68E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 9/30/2022 9:06:34 AM - Acute Risk - Input File: C:\Users\bshea\Desktop\HAR

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExp	2.90988	NonCancer	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
			East (m)	North (m)					
ALL	1ST	0.29970	626711.80	4273925.50	0.00	0.00	1.80	DC	
	2ND	0.28068	626919.50	4274348.20	0.00	0.00	1.80	DC	
	3RD	0.27995	626939.50	4274388.20	0.00	0.00	1.80	DC	
	4TH	0.27972	626691.80	4273905.50	0.00	0.00	1.80	DC	
	5TH	0.27926	626671.80	4273865.50	0.00	0.00	1.80	DC	
	6TH	0.27901	626651.80	4273825.50	0.00	0.00	1.80	DC	
	7TH	0.27744	626959.50	4274428.20	0.00	0.00	1.80	DC	
	8TH	0.27638	626979.50	4274468.20	0.00	0.00	1.80	DC	
	9TH	0.27384	626999.50	4274508.20	0.00	0.00	1.80	DC	
	10TH	0.27238	627019.50	4274548.20	0.00	0.00	1.80	DC	

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	5.22477	ug/m**3	14121409	626482.10	4273243.40	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H
WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H

WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

www.breeze-software.com

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	UWSP I-80 HRA (Cumulative No Project Conditions 2045)
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,24,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.SFC
ME	PROFFILE	Profile met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU	DAYTABLE	Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
M5C4S3GG	VOLUME		627698.0	4275224.0	0	0.0008986992	(g/s)	4.483
M5C4S3GH	VOLUME		627619.6	4275172.1	0	0.0008986992	(g/s)	4.483
M5C4S3GI	VOLUME		627543.6	4275117.1	0	0.0008986992	(g/s)	4.483
M5C4S3GJ	VOLUME		627472.6	4275055.5	0	0.0008986992	(g/s)	4.483
M5C4S3GK	VOLUME		627409.6	4274986.2	0	0.0008986992	(g/s)	4.483
M5C4S3GL	VOLUME		627350.5	4274913.1	0	0.0008986992	(g/s)	4.483
M5C4S3GM	VOLUME		627295.4	4274837.3	0	0.0008986992	(g/s)	4.483
M5C4S3GN	VOLUME		627248.6	4274755.8	0	0.0008986992	(g/s)	4.483
M5C4S3GO	VOLUME		627201.9	4274674.2	0	0.0008986992	(g/s)	4.483
M5C4S3GP	VOLUME		627158.1	4274591.1	0	0.0008986992	(g/s)	4.483
M5C4S3GQ	VOLUME		627114.5	4274507.8	0	0.0008986992	(g/s)	4.483
M5C4S3GR	VOLUME		627070.8	4274424.5	0	0.0008986992	(g/s)	4.483
M5C4S3GS	VOLUME		627027.2	4274341.3	0	0.0008986992	(g/s)	4.483
M5C4S3GT	VOLUME		626983.6	4274258.0	0	0.0008986992	(g/s)	4.483
M5C4S3GU	VOLUME		626940.0	4274174.7	0	0.0008986992	(g/s)	4.483
M5C4S3GV	VOLUME		626896.5	4274091.4	0	0.0008986992	(g/s)	4.483
M5C4S3GW	VOLUME		626853.0	4274008.1	0	0.0008986992	(g/s)	4.483
M5C4S3GX	VOLUME		626809.5	4273924.7	0	0.0008986992	(g/s)	4.483
M5C4S3GY	VOLUME		626766.0	4273841.4	0	0.0008986992	(g/s)	4.483
M5C4S3GZ	VOLUME		626722.4	4273758.1	0	0.0008986992	(g/s)	4.483
M5C4S3H0	VOLUME		626678.8	4273674.8	0	0.0008986992	(g/s)	4.483
M5C4S3H1	VOLUME		626635.0	4273591.7	0	0.0008986992	(g/s)	4.483
M5C4S3H2	VOLUME		626591.3	4273508.5	0	0.0008986992	(g/s)	4.483
M5C4S3H3	VOLUME		626547.5	4273425.3	0	0.0008986992	(g/s)	4.483

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
M5C4S3GG		627698.0	4275224.0	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GH		627619.6	4275172.1	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GI		627543.6	4275117.1	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GJ		627472.6	4275055.5	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GK		627409.6	4274986.2	0	0.0008986992	4.483	43.72093	4.170232

M5C4S3GL		627350.5	4274913.1	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GM		627295.4	4274837.3	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GN		627248.6	4274755.8	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GO		627201.9	4274674.2	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GP		627158.1	4274591.1	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GQ		627114.5	4274507.8	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GR		627070.8	4274424.5	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GS		627027.2	4274341.3	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GT		626983.6	4274258.0	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GU		626940.0	4274174.7	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GV		626896.5	4274091.4	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GW		626853.0	4274008.1	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GX		626809.5	4273924.7	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GY		626766.0	4273841.4	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3GZ		626722.4	4273758.1	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3H0		626678.8	4273674.8	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3H1		626635.0	4273591.7	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3H2		626591.3	4273508.5	0	0.0008986992	4.483	43.72093	4.170232
M5C4S3H3		626547.5	4273425.3	0	0.0008986992	4.483	43.72093	4.170232

*HARP - HRACalc v22118 9/30/2022 9:07:28 AM - Cancer Risk - Input File: C:\Users\bshea\Desktop\HAI

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS
1			9901	DieselExhP	0.2997	2.59E-04	30YrCancel	*

RP results\UWSP Cumulative No Project Conditions_HRAInput.hra

[illegible]

PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 9/30/2022 9:07:28 AM - Chronic Risk - Input File: C:\Users\bshea\Desktop\HA

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	SCENARIO	CV	CNS
1			9901	DieselExhP	0.2997	NonCancer	0.00E+00	0.00E+00

\\RP results\UWSP Cumulative No Project Conditions_HRAInput.hra

IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEET	ENDO
0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MILK_DC	WATER_DC
0.00E+00	0.00E+00	0.00E+00	*	3.00E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 9/30/2022 9:07:28 AM - Acute Risk - Input File: C:\Users\bshea\Desktop\HAR

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExp	5.22477	NonCancer	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00

BREEZE AERMOD Model Results

Max. Annual (4 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
			East (m)	North (m)					
ALL	1ST	0.35099	626759.50	4274008.20	0.00	0.00	1.80	DC	
	2ND	0.33895	626671.80	4273845.50	0.00	0.00	1.80	DC	
	3RD	0.33780	626711.80	4273925.50	0.00	0.00	1.80	DC	
	4TH	0.31562	626691.80	4273905.50	0.00	0.00	1.80	DC	
	5TH	0.31547	626651.80	4273825.50	0.00	0.00	1.80	DC	
	6TH	0.31491	626671.80	4273865.50	0.00	0.00	1.80	DC	
	7TH	0.31428	626631.80	4273785.50	0.00	0.00	1.80	DC	
	8TH	0.31208	626919.50	4274348.20	0.00	0.00	1.80	DC	
	9TH	0.31073	626939.50	4274388.20	0.00	0.00	1.80	DC	
	10TH	0.30796	626959.50	4274428.20	0.00	0.00	1.80	DC	

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	5.92475	ug/m**3	14121409	626863.10	4273912.20	0.00	0.00	1.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
6	Warning Message(s)
996	Informational Message(s)
43680	Hours Were Processed
452	Calm Hours Identified
544	Missing Hours Identified (1.25 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H
WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H

WARNING	ME	W186	THRESH_1MIN 1-min ASOS wind speed threshold used 0.50

www.breeze-software.com

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	UWSP I-80 HRA (Cumulative Plus Project Conditions 2045)
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC,NODRYDPLT,NOWETDPLT
CO	AVERTIME	Averaging times	1,24,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.SFC
ME	PROFFILE	Profile met file	C:\Users\bshea\Desktop\METEOR~1\SACINT~1.PFL
ME	SURFDATA	Surf met data info.	93225 2014
ME	UAIRDATA	U-Air met data info.	23230 2014
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	8.23
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU	DAYTABLE	Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
M5C4S3H6	VOLUME		627699.6	4275228.3	0	0.001021924	(g/s)	4.483
M5C4S3H7	VOLUME		627620.3	4275178.1	0	0.001021924	(g/s)	4.483
M5C4S3H8	VOLUME		627546.2	4275120.2	0	0.001021924	(g/s)	4.483
M5C4S3H9	VOLUME		627471.8	4275062.8	0	0.001021924	(g/s)	4.483
M5C4S3HA	VOLUME		627407.7	4274994.3	0	0.001021924	(g/s)	4.483
M5C4S3HB	VOLUME		627351.3	4274919.4	0	0.001021924	(g/s)	4.483
M5C4S3HC	VOLUME		627297.8	4274842.0	0	0.001021924	(g/s)	4.483
M5C4S3HD	VOLUME		627251.8	4274760.2	0	0.001021924	(g/s)	4.483
M5C4S3HE	VOLUME		627207.9	4274677.1	0	0.001021924	(g/s)	4.483
M5C4S3HF	VOLUME		627164.0	4274594.0	0	0.001021924	(g/s)	4.483
M5C4S3HG	VOLUME		627120.2	4274510.8	0	0.001021924	(g/s)	4.483
M5C4S3HH	VOLUME		627076.3	4274427.7	0	0.001021924	(g/s)	4.483
M5C4S3HI	VOLUME		627032.4	4274344.5	0	0.001021924	(g/s)	4.483
M5C4S3HJ	VOLUME		626988.6	4274261.4	0	0.001021924	(g/s)	4.483
M5C4S3HK	VOLUME		626944.7	4274178.3	0	0.001021924	(g/s)	4.483
M5C4S3HL	VOLUME		626900.8	4274095.1	0	0.001021924	(g/s)	4.483
M5C4S3HM	VOLUME		626857.0	4274012.0	0	0.001021924	(g/s)	4.483
M5C4S3HN	VOLUME		626813.1	4273928.8	0	0.001021924	(g/s)	4.483
M5C4S3HO	VOLUME		626769.2	4273845.7	0	0.001021924	(g/s)	4.483
M5C4S3HP	VOLUME		626725.4	4273762.6	0	0.001021924	(g/s)	4.483
M5C4S3HQ	VOLUME		626681.5	4273679.4	0	0.001021924	(g/s)	4.483
M5C4S3HR	VOLUME		626637.7	4273596.3	0	0.001021924	(g/s)	4.483
M5C4S3HS	VOLUME		626593.8	4273513.2	0	0.001021924	(g/s)	4.483
M5C4S3HT	VOLUME		626549.9	4273430.0	0	0.001021924	(g/s)	4.483

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
M5C4S3H6		627699.6	4275228.3	0	0.001021924	4.483	43.72093	4.170232
M5C4S3H7		627620.3	4275178.1	0	0.001021924	4.483	43.72093	4.170232
M5C4S3H8		627546.2	4275120.2	0	0.001021924	4.483	43.72093	4.170232
M5C4S3H9		627471.8	4275062.8	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HA		627407.7	4274994.3	0	0.001021924	4.483	43.72093	4.170232

M5C4S3HB		627351.3	4274919.4	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HC		627297.8	4274842.0	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HD		627251.8	4274760.2	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HE		627207.9	4274677.1	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HF		627164.0	4274594.0	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HG		627120.2	4274510.8	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HH		627076.3	4274427.7	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HI		627032.4	4274344.5	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HJ		626988.6	4274261.4	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HK		626944.7	4274178.3	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HL		626900.8	4274095.1	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HM		626857.0	4274012.0	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HN		626813.1	4273928.8	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HO		626769.2	4273845.7	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HP		626725.4	4273762.6	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HQ		626681.5	4273679.4	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HR		626637.7	4273596.3	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HS		626593.8	4273513.2	0	0.001021924	4.483	43.72093	4.170232
M5C4S3HT		626549.9	4273430.0	0	0.001021924	4.483	43.72093	4.170232

*HARP - HRACalc v22118 9/30/2022 9:08:03 AM - Cancer Risk - Input File: C:\Users\bshea\Desktop\HAI

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS
1			9901	DieselExhP	0.35099	3.04E-04	30YrCancel	*

[illegible]

PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 9/30/2022 9:08:03 AM - Chronic Risk - Input File: C:\Users\bshea\Desktop\HA

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	SCENARIO	CV	CNS
1			9901	DieselExp	0.35099	NonCancer	0.00E+00	0.00E+00

\\RP results\UWSP Cumulative Plus Project Conditions_HRAInput.hra

IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEET	ENDO
0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_D	MILK_DC	WATER_DC
0.00E+00	0.00E+00	0.00E+00	*	3.51E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00

[illegible]

3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 9/30/2022 9:08:03 AM - Acute Risk - Input File: C:\Users\bshea\Desktop\HAR

INDEX	GRP1	GRP2	POLID	POLABBRE'	CONC	SCENARIO	CV	CNS
1			9901	DieselExp	5.92475	NonCancer	0.00E+00	0.00E+00

BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00

Appendix D

SMAQMD Minor Project Health Effects Screening Tool

 Strategic Area Project Health Effects Tool		
Strategic Area Location	III. Downtown Sacramento	<-- Step 1: Input the area
NOx Emissions	252.57	<-- Step 2: Input NOx emissions in lbs./day
ROG Emissions	632.06	<-- Step 3: Input ROG emissions in lbs./day
PM25 Emissions	126.18	<-- Step 4: Input PM2.5 emissions in lbs./day

PM2.5 Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Emergency Room Visits, Asthma	0 - 99	2.3	2.1	0.011%	18419
Hospital Admissions, Asthma	0 - 64	0.14	0.13	0.0072%	1846
Hospital Admissions, All Respiratory	65 - 99	0.79	0.70	0.0036%	19644
Cardiovascular					
Hospital Admissions, All Cardiovascular (less Myocardial Infarctions)	65 - 99	0.40	0.37	0.0015%	24037
Acute Myocardial Infarction, Nonfatal	18 - 24	0.00021	0.00019	0.0049%	4
Acute Myocardial Infarction, Nonfatal	25 - 44	0.017	0.016	0.0052%	308
Acute Myocardial Infarction, Nonfatal	45 - 54	0.039	0.036	0.0049%	741
Acute Myocardial Infarction, Nonfatal	55 - 64	0.066	0.062	0.0050%	1239
Acute Myocardial Infarction, Nonfatal	65 - 99	0.26	0.24	0.0047%	5052
Mortality					
Mortality, All Cause	30 - 99	5.6	5.2	0.012%	44766
Ozone Health Endpoint	Age Range ¹	Incidences Across the Reduced Sacramento 4-km Modeling Domain Resulting from Project Emissions (per year) ^{2,5}	Incidences Across the 5-Air-District Region Resulting from Project Emissions (per year) ²	Percent of Background Health Incidences Across the 5-Air-District Region ³	Total Number of Health Incidences Across the 5-Air-District Region (per year) ⁴
		(Mean)	(Mean)		
Respiratory					
Hospital Admissions, All Respiratory	65 - 99	0.27	0.20	0.0010%	19644
Emergency Room Visits, Asthma	0 - 17	1.4	1.1	0.019%	5859
Emergency Room Visits, Asthma	18 - 99	2.2	1.8	0.014%	12560
Mortality					
Mortality, Non-Accidental	0 - 99	0.17	0.14	0.00045%	30386

- Affected age ranges are shown. Other age ranges are available, but the endpoints and age ranges shown here are the ones used by the USEPA in their health assessments. The age ranges are consistent with the epidemiological study that is the basis of the health function.
- Health effects are shown in terms of incidences of each health endpoint and how it compares to the base (2035 base year health effect incidences, or "background health incidence") values. Health effects are shown for the Reduced Sacramento 4-km Modeling Domain and the 5-Air-District Region.
- The percent of background health incidence uses the mean incidence. The background health incidence is an estimate of the average number of people that are affected by the health endpoint in a given population over a given period of time. In this case, the background incidence rates cover the 5-Air-District Region (estimated 2035 population of 3,271,451 persons). Health incidence rates and other health data are typically collected by the government as well as the World Health Organization. The background incidence rates used here are obtained from BenMAP.
- The total number of health incidences across the 5-Air-District Region is calculated based on the modeling data. The information is presented to assist in providing overall health context.
- The technical specifications and map for the Reduced Sacramento 4-km Modeling Domain are included in Appendix A, Table A-1 and Appendix B, Figure B-2 of the *Guidance to Address the Friant Ranch Ruling for CEQA Projects in the Sac Metro Air District*.

Sac Metro Air District Strategic Area Project Health Effects Tool, version 2, published September 2020

Appendix E

Air Quality Management Plan

Air Quality Mitigation Plan

Upper Westside Specific Plan Project

Prepared for:
Upper Westside LLC

March 2022

Prepared by



1501 SPORTS DRIVE, SUITE A, SACRAMENTO, CA 95834

Upper Westside Specific Plan Project Air Quality Mitigation Plan

Lead Agency

Sacramento County
Department of Planning and Environmental Review
827 7th Street, 2nd Floor
Sacramento, CA 95814

Prepared By

Raney Planning and Management, Inc.
1501 Sports Drive, Suite A
Sacramento, CA 95834
(916) 372-6100

Contact:
Rod Stinson
Vice President

TABLE OF CONTENTS

INTRODUCTION	2
PROJECT SUMMARY.....	2
Project Location	2
Project Description	2
PURPOSE OF THE AQMP	7
METHODOLOGY	8
Required Air Quality Emissions Reduction Percentage	8
OZONE PRECURSOR ANALYSIS	9
Unmitigated Baseline Operational Emissions	9
Establishing Emissions Reduction Targets	10
Summary of Mitigation Measures	10
Project On-Model Mitigated Operational Emissions.....	12
Project Off-Model Mitigated Operational Emissions.....	13
Project Overall Mitigated Operations Emissions	13
Ozone Precursor Conclusion	14
PARTICULATE MATTER ANALYSIS.....	14
SOURCES	16

ATTACHMENTS

Attachment A: AQMP CalEEMod Modeling Results
Attachment B: Off-Model Calculations (Natural Gas Prohibition)

INTRODUCTION

The Upper Westside Specific Plan Project (proposed project) is subject to the California Environmental Quality Act (CEQA). Accordingly, the lead agency is preparing an Environmental Impact Report (EIR) for the proposed project, which will assess whether the proposed project would result in significant air pollutant emissions impacts. If emissions exceed the Sacramento Metropolitan Air Quality Management District (SMAQMD)'s adopted thresholds of significance, then a mitigation plan, consistent with the SMAQMD *Guide to Air Quality Assessment in Sacramento County* (CEQA Guide), must be prepared to address the impacts.

Based on the Air Quality and Greenhouse Gas Impact Analysis prepared for the proposed project, operational air emissions associated with the proposed project, particularly related to ozone precursors (i.e., reactive organic gases [ROG] and nitrous oxides [NO_x]), were found to be significant.¹ This Air Quality Mitigation Plan (AQMP) addresses the identified significant impacts and has been prepared in compliance with the SMAQMD *Recommended Guidance for Land use Emission Reductions*.² In addition, this AQMP is intended to provide air quality impact mitigation measures that would be applied to the proposed project, as necessary, for the project to meet the requirements of SMAQMD. All modeling results are included as an appendix to this document.

PROJECT SUMMARY

The Project Summary section includes a discussion regarding the specific location of the proposed project, as well as the project components.

Project Location

The proposed project is located northwest of Interstate 80 (I-80), north and east of the Sacramento River and the Sacramento County limits, west of the Witter Canal, and south of Fisherman's Lake/Slough. The 2,066-acre site is outside of the Urban Policy Area and Urban Services Boundary in the Natomas New Growth Area, and is predominantly agricultural land with existing commercial uses, including a truck stop, restaurants, gas stations, and hotels located west of the I-80 off-/on-ramp (see Figure 1 and Figure 2).

Surrounding existing land uses include the Sacramento River to the south and west; agricultural land to the west; I-80, multi-family residences, and a business park to the east; and single-family residences to the east, west, north, and south.

The Sacramento County General Plan designates the site as Agricultural Cropland, Agricultural Residential, Commercial/Office, and Recreation and the site is zoned Agricultural, Agricultural Residential, General Commercial, and Highway Travel Commercial.

Project Description

The proposed project would create a Specific Plan for the Upper Westside planning area, which would include 9,231 residential dwelling units, 130.5 acres of commercial uses, 147.1 acres of schools, 73.2 acres of parks, 49.8 acres of open space, 83.9 acres of agricultural residences, and 407.6 acres of agricultural cropland (see Figure 3). The project would also include roadway improvements, including the expansion of El Centro Road and the development of additional roadways throughout the project site.

¹ Upper Westside LLC. *Air Quality and Greenhouse Gas Impact Analysis Upper Westside Specific Plan Project* [pg. 46]. December 2021.

² Sacramento Metropolitan Air Quality Management District. *Recommended Guidance for Land Use Emission Reductions Version 4.3 (for Operational Emissions)*. February 10, 2021.

**Figure 1
Regional Project Location**

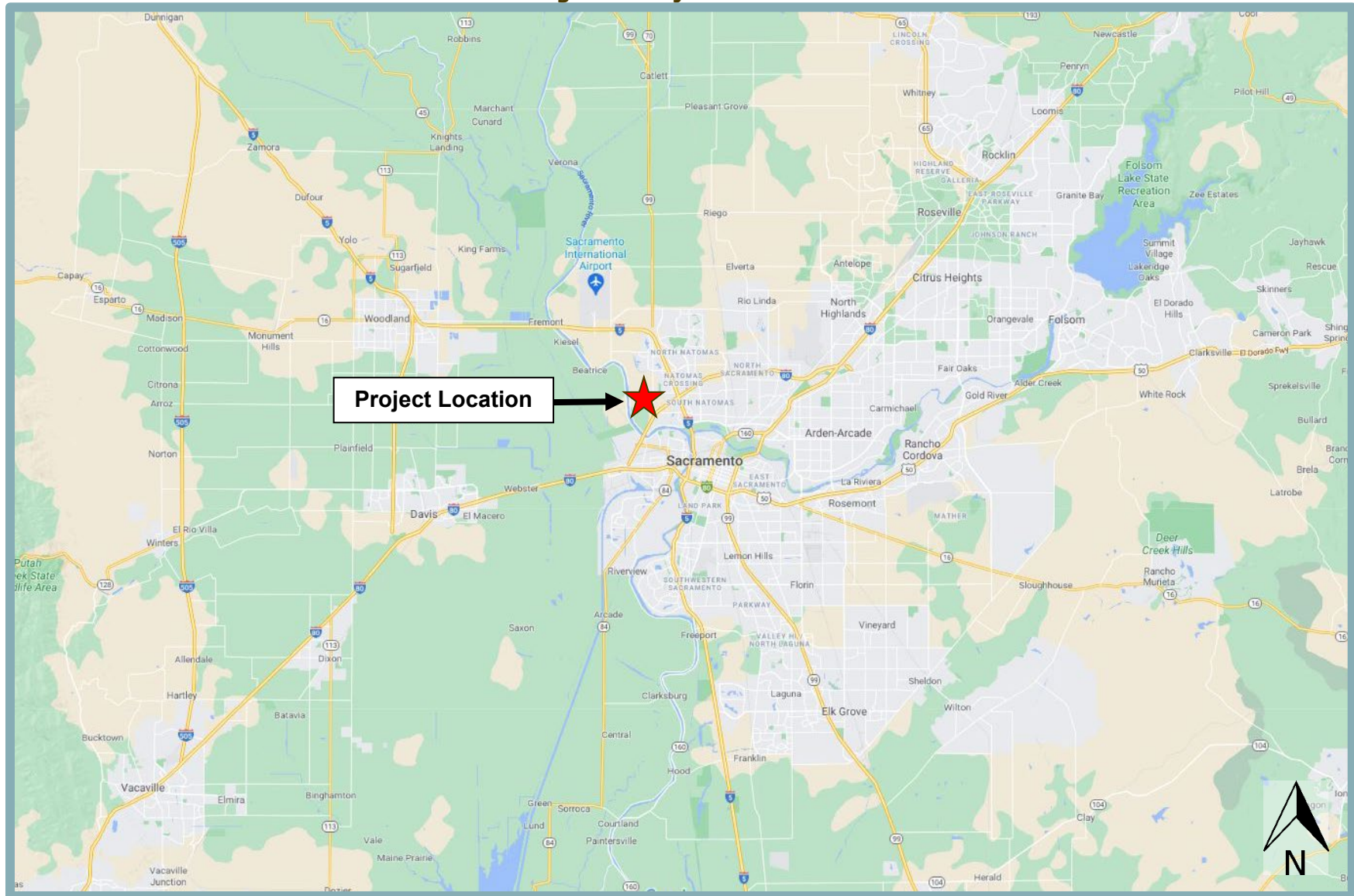


Figure 2
Project Site

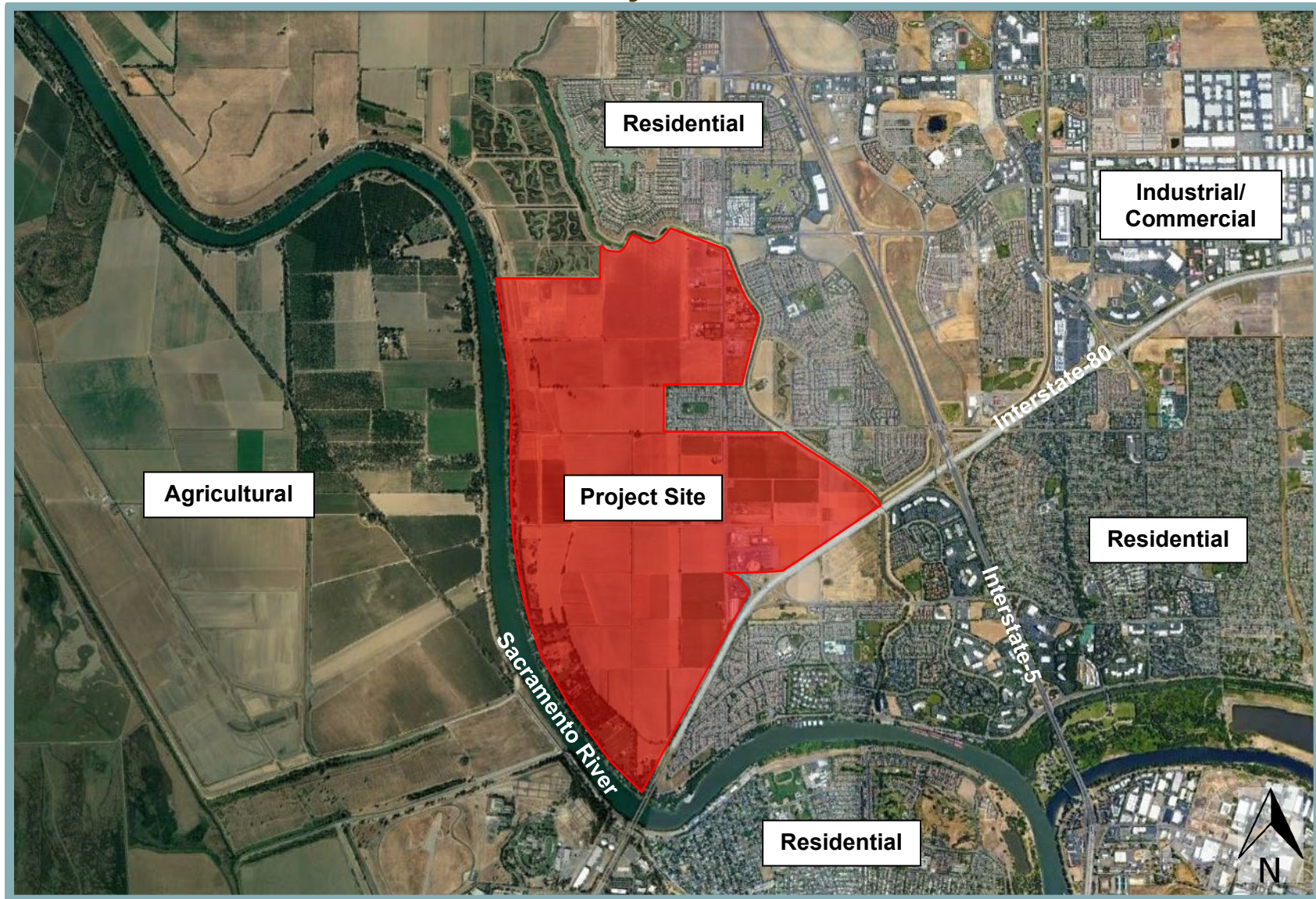
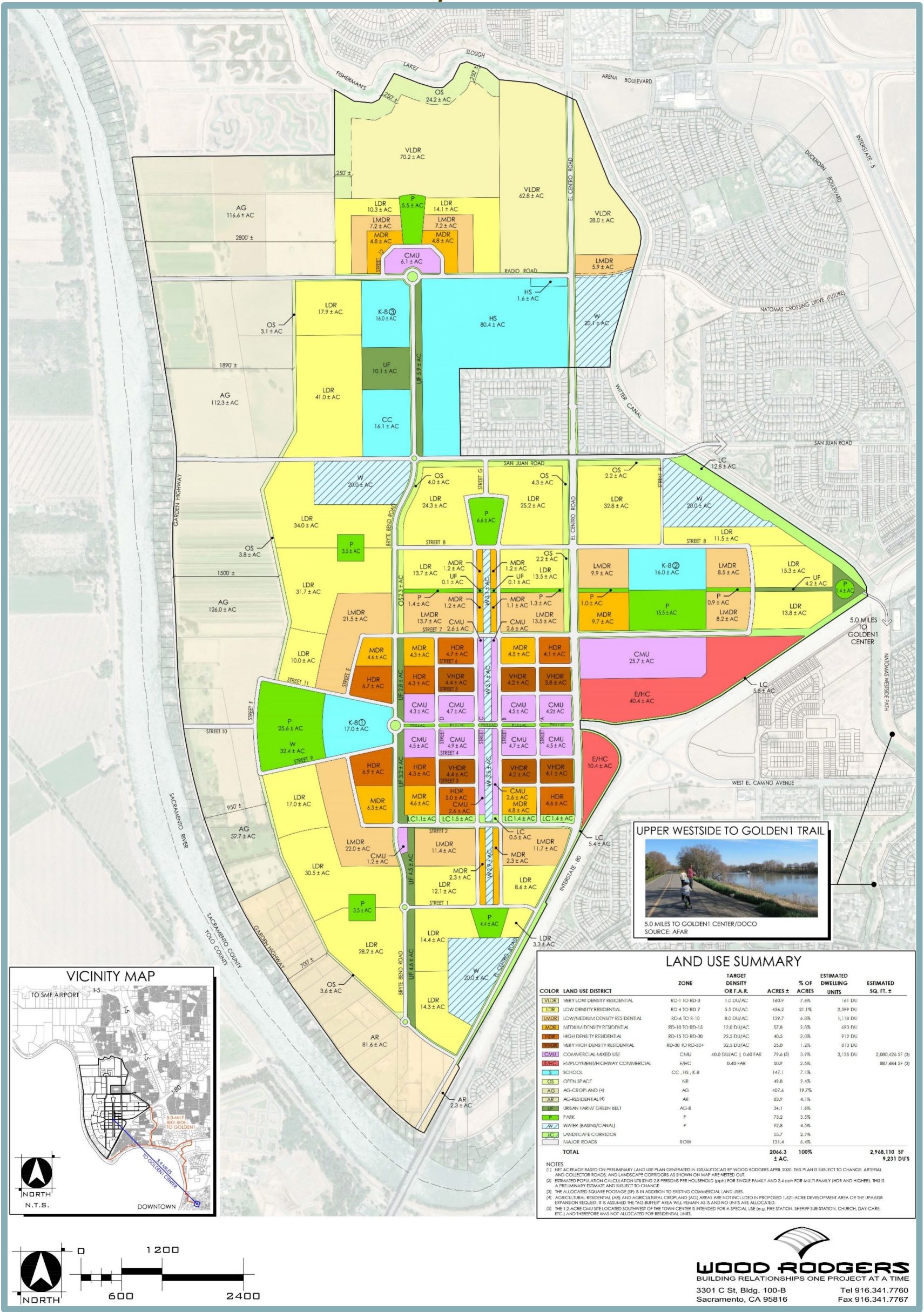


Figure 3
Preliminary Land Use Plan



The project would require County approval of the following entitlements:

1. **Amend the Urban Services Boundary** to include the Upper Westside Development Area.
2. **Amend the Urban Policy Area** to include the Upper Westside Plan Development Area.
3. **Amend the General Plan Land Use Element and Land Use Diagram** to change the land use designations for the Upper Westside Development Area (1,532-acres) from Agricultural Cropland (1,825.8± acres), Agriculture Residential (97.0± acres), Recreation (55.3±), and Commercial and Offices (49.5± acres) to Low Density Residential (805.4± acres), Medium Density Residential (41.4± acres), High Density Residential (25.4± acres), Commercial and Office (52.2± acres), Mixed Use (81.5± acres), Public/Quasi-Public (149.0± acres), Recreation (288.5± acres), Agricultural Cropland (407.6± acres) and Agricultural Residential (83.9± acres). The General Plan designations on parcels within the Ag Buffer area (534-acres) are proposed to remain unchanged.
4. **Amend the General Plan Transportation Plan Diagram** to include the roadway system as designated for the Upper Westside Plan Area by the Specific Plan document.
5. **Amend the General Plan Bicycle Master Plan Diagram** to include the bikeway system as designated for the Upper Westside Plan Area by the Specific Plan document.
6. **Amend General Plan Text.** Several policies within various elements of the General Plan are proposed for modification.
7. **Amend the Zoning Diagram** to change the Zoning Designations for the Participating Properties (292± acres) within the Development Area of the Upper Westside Plan Area from AG-40 to Special Planning Area (SPA).
8. **Adopt the Upper Westside Specific Plan** document to establish land use, zoning, and development standards for the parcels located within the Development Area.
9. **Adopt an Urban Services Plan** for the Upper Westside Plan Development Area.
10. **Adopt an Affordable Housing Strategy** for the Upper Westside Plan Development Area.
11. **Adopt a Water Supply Master Plan** for the Upper Westside Plan Development Area.
12. **Approve a Water Supply Assessment** for the Upper Westside Plan Development Area.
13. **Adopt a Public Facilities Financing Plan** for the Upper Westside Plan Development Area.
14. **Adopt a Reimbursement Fee** so that non-participating property owners within the Development Area can reimburse the sponsoring/participating property owners for the cost to prepare and process a Specific Plan and EIR for the Upper Westside Plan Area.
15. **Adopt a Development Agreement** for the sponsoring/participating property owners, controlling 295± acres, located within the Upper Westside Plan Development Area.

In addition to the above entitlements, separate Service District Annexation requests for the Upper Westside Plan Area are proposed to include:

- Annexation to County Service Area 10 (CSA-10) or the creation of a new CSA.
- Annexation to Sacramento Regional County Sanitation District (Regional San).
- Annexation to Sacramento Area Sewer District (SASD).

More detail regarding the components included as part of the proposed project can be found in the EIR.

PURPOSE OF THE AQMP

CEQA requires that EIRs identify and evaluate any potential environmental impacts of a project. The analysis of potential effects must include both direct project impacts and indirect impacts. The analysis must then describe feasible measures that could reduce any potentially significant adverse impacts to less-than-significant levels. To assist in the evaluation of air quality impacts, the SMAQMD developed the CEQA Guide. The CEQA Guide outlines a methodology for calculating project emissions whereby a project is divided into separate construction and operational phases. For each phase, the CEQA Guide establishes significance thresholds related to elevated regional ambient ozone concentrations, which are considered a cumulative impact. Project emissions are compared to these significance thresholds, and mitigation measures are required for projects with emissions exceeding these thresholds.

As part of the CEQA process, project operational emissions are calculated and impacts are determined in the EIR. Any projects that generate emissions that exceed the adopted SMAQMD thresholds of significance for ozone precursor pollutants shall be deemed to have a significant environmental impact. According to SMAQMD, projects that generate a significant impact for ozone precursors should create an AQMP, subject to review and recommendation as to technical adequacy by SMAQMD, to minimize impacts. The AQMP shall consist of feasible measures to reduce operational ozone precursor emissions associated with the project and minimize impacts, which would be incorporated as mitigation into the project's EIR. Implementation of the measures set forth in this AQMP would be enforced by the County.

Ozone Precursors

Ozone is a reactive gas consisting of three oxygen atoms. In the troposphere, ozone is a product of the photochemical process involving the sun's energy, and is a secondary pollutant formed as a result of a complex chemical reaction between reactive organic gases (ROG) and oxides of nitrogen (NO_x) emissions in the presence of sunlight. Ozone at the Earth's surface causes numerous adverse health effects and is a major component of smog. High concentrations of ground level ozone can adversely affect the human respiratory system and aggravate cardiovascular disease and many respiratory ailments. This AQMP focuses on two categories of ozone precursors, ROG and NO_x , which are discussed in further detail below.

Reactive Organic Gas

Reactive Organic Gas (ROG) refers to a group of reactive chemical gases composed of hydrocarbon compounds typically found in paints and solvents that contributes to the formation of smog and ozone by involvement in atmospheric chemical reactions. A separate health standard does not exist for ROG. However, some compounds that make up ROG are toxic, such as the carcinogen benzene.

Oxides of Nitrogen

Oxides of Nitrogen (NO_x) are a family of gaseous nitrogen compounds and are precursors to the formation of ozone and particulate matter. The major component of NO_x , nitrogen dioxide (NO_2), is a reddish-brown gas that discolors the air and is toxic at high concentrations. NO_x results primarily from the combustion of fossil fuels under high temperature and pressure. On-road and off-road motor vehicles and fuel combustion are the major sources of NO_x . NO_x reacts with ROG to form smog, which could result in adverse impacts to human health, damage the environment, and cause poor visibility. Additionally, NO_x emissions are a major component of acid rain. Health effects related to NO_x include lung irritation and lung damage and can cause increased risk of acute and chronic respiratory disease.

METHODOLOGY

For this analysis, an unmitigated baseline and a mitigated operational scenario were modeled. The SMAQMD establishes the basis for the use of an unmitigated baseline scenario in the document *Recommended Guidance for Land Use Emission Reductions*, where the unmitigated baseline is considered to be development of the proposed project without consideration of any inherent design or site features (e.g., design enhancements, vehicle miles traveled [VMT] reductions, etc.). Although SMAQMD directs that the unmitigated baseline does not incorporate any design features of the project, the unmitigated baseline should incorporate any statewide regulations that may serve to reduce emissions. For instance, the California Building Standards Code (CBSC) requires that all single-family residential units of three stories or less be developed with on-site renewable energy systems sufficient to meet all electricity demands from the residences. The unmitigated baseline emissions estimates prepared for the project incorporate all relevant CBSC requirements, as all development in California is required to incorporate such features.

The unmitigated baseline was compared to the mitigated operational emissions that would result from the proposed project. The mitigated operational scenario includes mitigation measures and development strategies that would be incorporated as part of the proposed development. Both the unmitigated baseline and mitigated total ozone precursors for the proposed project were estimated using the California Emissions Estimator Model (CalEEMod) version 2020.4.0 software - a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects.³ The model applies inherent default values for various land uses, including trip generation rates based on the Institute of Transportation Engineers (ITE) Manual, vehicle mix, trip length, average speed, etc. The emissions were modeled during the full buildout year, which was assumed to be 2045. All project modeling results are included as Attachment A.

Required Air Quality Emissions Reduction Percentage

The SMAQMD has developed the *Recommended Guidance for Land use Emission Reductions Version 4.3*, dated February 2021, to instruct project proponents how to quantify, apply, and comply with various measures for projects within the SMAQMD jurisdictional area. Projects that are anticipated to emit 65 pounds or more of NO_x or ROG per day, 80 pounds per day (or 14.6 tons/year) or more of PM₁₀, or 82 pounds per day (or 15 tons/year) or more of PM_{2.5} are considered operationally significant for CEQA purposes and should apply feasible mitigation. SMAQMD guidance provides that the creation and implementation of an AQMP represents all feasible mitigation, provided a reduction of ozone precursors is illustrated to be below an unmitigated project by 15 percent for projects considered in the State Implementation Plan (SIP) and 35 percent for projects not considered in the SIP. For PM₁₀ and PM_{2.5}, SMAQMD does not recommend a percent reduction goal, and instead recommends incorporation of all feasible mitigation measures for projects that exceed the SMAQMD's PM thresholds. Consistent with the aforementioned requirements, preparation of an AQMP for the proposed project is required under Mitigation Measure AQ-1 of the project's Air Quality and Greenhouse Gas Impact Analysis.⁴

³ California Air Pollution Control Officers Association (CAPCOA). *California Emissions Estimator Model User's Guide Version 2020.4.0*. May 2021.

⁴ Upper Westside LLC. *Air Quality and Greenhouse Gas Impact Analysis Upper Westside Specific Plan Project* [pg 46]. March 2022.

The most recent SIP for the Sacramento region is the *Sacramento Regional 2008 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan*.⁵ As the proposed project has not been anticipated by the County in the General Plan or other community plan, development of the project would not have been included in the growth assumptions of the SIP. Because the SIP takes into account growth assumptions to determine when and how air quality standards could be achieved, emissions that are not accounted for in the SIP have the potential to conflict with the attainment goals set forth in the SIP. As such, a reduction of 35 percent below unmitigated emissions of ozone precursors would be required for the proposed project. According to SMAQMD, a project's ozone precursor emissions reductions goals should be based on mobile emissions only; however, reductions of ozone precursors from non-mobile emission reduction measures (e.g., natural gas or energy reductions) may still be accounted for and applied.

Two types of mitigation measures may be applied - those that are included in CalEEMod (known as on-model measures) and those located solely within the SMAQMD's *Recommended Guidance for Land Use Emission Reductions* (called off-model measures). Many of the on- and off-model measures are based on the California Air Pollution Control Officers Association's (CAPCOA) guidelines *Quantifying Greenhouse Gas Mitigation Measures*.⁶ Further clarification on the measures can be found in the CalEEMod User Guide and the CAPCOA Measures.

OZONE PRECURSOR ANALYSIS

The unmitigated baseline and mitigated operational emissions are presented below, and compared, in order to determine if the proposed project would meet the 35 percent reduction requirement.

Unmitigated Baseline Operational Emissions

Using CalEEMod, baseline emissions of ROG and NO_x from operations following build-out of the proposed project were estimated. Results of the modeling are presented in Table 1.

Table 1		
Unmitigated Baseline Operational Ozone Precursor Emissions		
Source	ROG (tons/yr)	NO_x (tons/yr)
Area	79.52	1.11
Energy	1.41	12.40
Mobile	34.45	39.55
Total	115.38	53.06
<i>Source: CalEEMod, July 2021 (see Attachment A).</i>		

As noted above, the unmitigated baseline scenario includes compliance with statewide regulations, but does not include consideration of any specific project design or site features. In particular, improvements in energy efficiency due to the implementation of the 2019 CBSC, as well as reductions in the carbon intensity of grid supplied electricity due to SMUD's anticipated compliance with statewide RPS standards, were included in the unmitigated baseline emissions estimation.

⁵ El Dorado Air Quality Management District, Feather River Air Quality Management District, Placer County Air Pollution Control District, Sacramento Metropolitan Air Quality Management District, Yolo-Solano Air Quality Management District. *Sacramento Regional 2008 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan*. July 24, 2017.

⁶ California Air Pollution Control Officers Association. *Quantifying Greenhouse Gas Mitigation Measures*. August 2010.

Establishing Emissions Reduction Targets

For projects not considered in the State Implementation Plan (SIP), including the proposed project, the SMAQMD recommends a 35 percent reduction of ozone precursor mobile source emissions. Accordingly, the emissions reductions that would be required for the proposed project are presented in Table 2 below.

Table 2			
Required Emissions Reductions			
Pollutant	Estimated Mobile Emissions (tons/yr)	Percent Reduction Required	Reduction Target (tons/yr)
ROG	34.45	35	12.06
NO _x	39.55	35	13.84
<i>Source: CalEEMod, July 2021 (see Attachment A).</i>			

As shown in Table 2, ROG emissions must be reduced by 12.06 tons/yr, and NO_x must be reduced by 13.84 tons/yr. This AQMP will show that the proposed project would achieve the aforementioned emissions reductions by implementing the measures presented herein.

Summary of Mitigation Measures

The project includes the following on-model and off-model features inherent in the project design, which would contribute to the reduction in emissions in comparison to the unmitigated baseline condition:

On-Model Mitigation Measures

As discussed above, on-model measures are those that are included in CalEEMod. Further detail regarding the proposed project's on-model measures are provided below.

The protocol within SMAQMD's *Recommended Guidance for Land use Emission Reductions* focuses on reducing ozone emissions through reductions in VMT. Because vehicles release ozone precursors during use, reducing VMT results in a reduction of vehicles usage, and thus a reduction in the emission of ozone precursors. Reducing VMT is typically achieved through encouraging alternative means of transportation, which reduces the use of single-passenger vehicles, designing new developments with efficient circulation networks, and various other methods that reduce existing and anticipated VMT.

VMT reductions often result from a mode shift, where a commuter who previously relied on a single-passenger vehicle for commuting begins to instead use other means of transportations such as walking, biking, carpooling or using public transit. In order for such mode shifts to occur, the infrastructure must be designed to accommodate such activities. For instance, new developments must include sidewalks while reducing barriers to pedestrians such as walls, slopes, and excessive landscaping. In addition, bike lanes, bicycle parking, and bicycle-related signage would be provided within the project area, as appropriate. By increasing pedestrian and bicycle access and interconnectivity, projects can decrease the amount of VMT typically associated with development.⁷ Development in the project area would be required to include pedestrian infrastructure to help facilitate pedestrian access, provide bicycle infrastructure, and encourage mode shifts away from single-passenger vehicle use, thus reducing project-wide operational VMT.

⁷ California Air Pollution Control Officers Association. *Quantifying Greenhouse Gas Mitigation Measures*. August 2010.

The following project features that would provide a reduction in ozone precursor emissions as a result of VMT reductions were applied as on-model measures in CalEEMod:

1. Update Trip Generation Rates (TS)

Trip generation rates were updated pursuant to the project-specific Trip Generation Technical Memorandum prepared by Fehr and Peers.⁸ Trip generation estimates were prepared using the Mixed-Use Trip Generation Model (MXD+), which is highly sensitive to project location. Site-specific inputs that are considered in the model include, but are not limited to, the presence of transit, percentage of project households within 0.25-mile of transit stops, percentage of total regional employment centers within a 30-minute transit trip, and number of jobs within a 1-mile radius of the project. Other inputs considered in MXD+ include rates of vehicle ownership in the project area as well as average household size. MXD+ also considers pedestrian network connectivity using a proxy of intersection density, which indicates whether the project site is located in a walkable, grid layout or a more suburban, curvi-linear layout.

Overall, the complementary nature of land uses within the project site, combined with the availability of transit and walking/biking, would result in an overall 25 percent reduction in gross daily vehicle trips.

2. Implement Trip Reduction Program (TRT-1 and TRT-2)

Participation in a trip reduction program was applied as on-model measures TRT-1 and TRT-2. According to the SMAQMD's *Recommended Guidance for Land Use Emission Reductions*, a Transportation Management Association (TMA) is a formally incorporated organization that applies carefully selected approaches to facilitate the low and zero-emission movement of people within a given area. A TMA must be legally constituted as a non-profit organization, Property/Business Improvement District, or a government entity with a non-revocable funding mechanism, such as a community finance district, dedicated to TMA operations and services. The TMA must provide a minimum level of transportation demand management services (TDM) to employees and residents within the area covered by the AQMP sufficient to achieve the emission reductions claimed by the measure. Services must be enumerated and funded to the satisfaction of Sacramento County in consultation with the SMAQMD including but not limited to the following: guaranteed ride home program; safe routes to school program; yearly reporting to Sacramento County and the SMAQMD on TMA program statistics and progress, trip planning assistance; telework support; bike and pedestrian support, and advocacy.

The proposed project would be required to participate in a qualifying TMA as part of this AQMP, and enforced by Mitigation Measure AQ-1 of the project's Air Quality and Greenhouse Gas Analysis. One example is North Natomas Jibe, which is a TMA that was founded in 1999. The proposed project could annex into the Jibe service area. Membership funding for Jibe is included as a line item on annual property taxes and, thus, funding for this measure would be ensured. The cost of membership dues for properties within the project site would be negotiated at the time of annexation.⁹ The proposed project could also implement a separate TMA, subject to approval by Sacramento County and the SMAQMD.

⁸ Fehr and Peers. *Draft Technical Memorandum #2: Upper Westside Specific Plan – Project Trip Generation*. December 8, 2020.

⁹ Becky Heieck, Executive Director, North Natomas Jibe. Personal Communication [phone] with Briette Shea, Senior Associated/Air Quality Technician, Raney Planning and Management. March 9, 2022.

Off-Model Mitigation Measures

The following measure that would provide reductions in ozone precursor emissions were included in off-model emissions reductions calculations for the proposed project (see Attachment B):

3. No Natural Gas in Residential Land Uses (M-n)

Features of a structure's envelope that use natural gas, such as water heaters and space heaters, as well as appliances that use natural gas, such as cooking equipment and clothes dryers, emit NO_x and ROG during operation. In order to reduce NO_x and ROG, as well as GHG, emissions from project operations, installation of infrastructure necessary to supply natural gas to future on-site residential developments has been prohibited by Sacramento County. As a result, all proposed residential uses within the project site would be developed using all-electric appliances, as well as all-electric space heating systems and water heating systems. Compared to the on-site combustion of natural gas, the use of electricity for all future on-site appliances and building envelope features within residential developments represents a much less emissions-intensive source of energy. Reductions in the use of natural gas, through the replacement of appliances that would otherwise be fueled by natural gas with all-electric appliances, would result in increases in the consumption of electricity.¹⁰ However, in order to comply with statewide RPS requirements, SMUD is continually reducing the emissions intensity of grid-supplied electricity through development of renewable energy systems; thus, electricity supplied by SMUD is anticipated to become less emissions-intensive with time, eventually being fully renewably sourced by the year 2045. Additionally, pursuant to the 2019 CBSC, the single-family residential component of the proposed project would be required to generate 100 percent renewable energy on-site and, thus, would not be expected to regularly rely on grid electricity from SMUD.¹¹ The net effect of prohibiting natural gas consumption on-site would be an eventual removal of NO_x and ROG emissions from the use of natural gas in residential uses on-site (see Attachment B).

Project On-Model Mitigated Operational Emissions

The above described on-model measures would result in total mitigated operational emissions of ozone precursors as shown in Table 3.

Table 3		
Project Operational Ozone Precursor Emissions		
Source	ROG (tons/yr)	NO_x (tons/yr)
Unmitigated Baseline	115.38	53.06
On-Model Total	106.50	42.70
Reduction Achieved	8.88	10.36
Source: CalEEMod, July 2021; and CalEEMod, March 2022 (see Attachment A).		

It should be noted that Table 3 compares emissions from all operational sources before and after the implementation of on-model mitigation measures. As discussed previously, per SMAQMD's *Recommended Guidance for Land Use Emission Reductions*, while emissions reductions targets should be set based solely on mobile-sourced emissions from project operations, the project's

¹⁰ California Commercial. *End Use Survey, Annual Summary Statistics*. Available at: <http://capabilities.itron.com/CeusWeb/Chart.aspx>. Accessed February 2020.

California Energy Commission. *California Residential Appliance Saturation Study, Volume 2: Study Results*. Available at: https://webtools.dnvgl.com/RASS2009/Uploads/2009_RASS_Volume%202_FINAL_101310.pdf. Accessed April 2020.

¹¹ It is noted that the residences would still be connected to the SMUD grid, and would have the ability to utilize grid electricity in the case of emergency.

achieved emissions reductions should be calculated based on total project emissions.¹² Therefore, the estimated emissions and the achieved emissions reductions presented in Table 3 represent emissions from all operational sources, not just the mobile sourced emissions.

Project Off-Model Mitigated Operational Emissions

The off-model measures would result in a further reduction of mitigated operational emissions as presented below:

- Net ROG Reduction: 0.81 tons/yr; and
- Net NO_x Reduction: 6.93 tons/yr.

The off-model calculations, which consider the prohibition of natural gas in residential developments, are included as Attachment B.

Project Overall Mitigated Operations Emissions

The on-model and off-model measures, described above, would result in a total reduction of mitigated operational emissions as presented in Table 4, below:

Table 4		
Project Operational Ozone Precursor Emissions		
Source	ROG (tons/yr)	NO_x (tons/yr)
Unmitigated Baseline	115.38	53.06
Project Total (On-Model + Off-Model Measures)	105.69	35.77
Reduction Achieved	9.69	17.29
Reduction Goal	12.06	13.84
Target Achieved?	NO	YES
<i>Source: CalEEMod, July 2021; and CalEEMod, March 2022 (see Attachment A).</i>		

As demonstrated in the table, the proposed project would overachieve the NO_x target by 3.45 tons/yr, but would underachieve the ROG target by 2.37 tons/yr. Additionally, it is noted that no further feasible on-site ROG reductions are available for the proposed project.

In the preparation of AQMPs, SMAQMD allows the conversion of ozone precursors at a rate consistent with the most current SIP.¹³ As noted previously, the most recent SIP for the Sacramento region is the *Sacramento Regional 2008 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan*.¹⁴ An updated SIP for the 2015 Federal Ozone Standard is still in development, but this analysis assumes that the Sacramento region non-attainment area will still be NO_x-limited. Because the Sacramento region is NO_x-limited, reductions in NO_x emissions are more beneficial to achieving the ozone standard than ROG reductions. In other words, reducing a ton of NO_x would result in the same or better regional ozone air quality benefits as reducing a ton of ROG.

¹² Sacramento Metropolitan Air Quality Management District. *Recommended Guidance for Land Use Emission Reductions Version 4.3 (for Operational Emissions)* [pg. 5]. February 10, 2021.

¹³ Sacramento Metropolitan Air Quality Management District. *Recommended Guidance for Land Use Emission Reductions Version 4.3 (for Operational Emissions)* [pg. 5]. February 10, 2021.

¹⁴ El Dorado Air Quality Management District, Feather River Air Quality Management District, Placer County Air Pollution Control District, Sacramento Metropolitan Air Quality Management District, Yolo-Solano Air Quality Management District. *Sacramento Regional 2008 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan*. July 24, 2017.

Based on the above, a portion of the NO_x reduction exceedance can be applied to the ROG reduction in order to achieve the required reduction goal.

Ozone Precursor Conclusion

Based on the above analysis, and as presented in Table 5, the requirements of this AQMP would achieve the total reduction goal of 35 percent from unmitigated baseline mobile emissions for both ROG and NO_x.¹⁵

Table 5		
Project Operational Ozone Precursor Emissions		
Source	ROG (tons/yr)	NO_x (tons/yr)
Unmitigated Baseline	115.38	53.06
Project Total (On-Model + Off-Model Measures)	105.69	35.77
Reduction Achieved	9.69	17.29
Reduction Goal	12.06	13.84
Target Achieved?	NO	YES
Difference	2.37	3.45
<i>Reallocation of NO_x to ROG</i>	<i>-2.37</i>	<i>+2.37</i>
Updated Difference	0	1.08
Target Achieved?	YES	YES
Source: CalEEMod, July 2021; and CalEEMod, March 2022 (see Attachment A).		

If one or more of the requirements of this AQMP are found to be infeasible at the time of development, the County shall allow for replacement mitigation measures to ensure that a minimum 35 percent overall reduction is achieved. For example, the County could require that trees used for landscaping within the project site are characterized as low-biogenic volatile organic compound (BVOC) species per the *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan* prepared by SMAQMD.

Promoting the use of low BVOC trees is identified as a viable strategy for SMAQMD to achieve emissions reductions within the Sacramento Valley Air Basin, the air basin in which the project site is located, thus improving air quality for the air basin.¹⁶ The project applicant, in coordination with the SMAQMD, shall work with future developers to ensure proper implementation of the measures included in this AQMP, as well as any future replacement mitigation measures. Examples of replacement mitigation measures include the installation of Electric Vehicle (EV) charging equipment in excess of CBSC standards and the implementation of off-site pedestrian and bicycle infrastructure improvements.

PARTICULATE MATTER ANALYSIS

Although SMAQMD's *Recommended Guidance for Land Use Emission Reductions* only includes recommendations for reductions of the ozone precursors NO_x and ROG, the District maintains thresholds for Particulate Matter (PM) pollution.

¹⁵ As noted above, the updated SIP that addressed the 2015 Federal Ozone Standard has not yet been approved by the SMAQMD board, the CARB, nor the USEPA. If the updated SIP determines that the SFNA is ROG-limited, rather than NO_x-limited, the proposed project would be required to purchase and surrender 2.37 tons of ROG Emissions Reduction Credits (ERCs) to achieve the required ozone precursor reduction.

¹⁶ Sacramento Metropolitan Air Quality Management District. *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan*. September 26, 2013.

PM is a complex mixture of extremely small particles and liquid droplets. The district maintains construction related and operational thresholds for particles that are 10 micrometers in diameter or smaller (PM₁₀) and particles that are 2.5 micrometers in diameter or smaller (PM_{2.5}). The District's Operational thresholds for PM pollution are presented in Table 6.

Table 6			
SMAQMD Operational Thresholds for PM			
PM₁₀ (lbs/day)	PM₁₀ (tons/yr)	PM_{2.5} (lbs/day)	PM_{2.5} (tons/yr)
80	14.6	82	15
Note: The foregoing thresholds of significance only apply when all feasible BACT/BMPs are applied. If all feasible BACT/BMPs are not applied, then the applicable threshold of significance for emissions of PM is zero.			
Source: SMAQMD Thresholds of Significance Table. April 2020.			

While SMAQMD's *Recommended Guidance for Land Use Emission Reductions* does not require AQMPs to include specific measures to reduce PM emissions, many of the on- and off-model measures discussed above would have the co-benefit of reducing PM pollution. To demonstrate the PM emissions reduction that would be achieved by this AQMD, the baseline PM emissions were estimated using the same methodology as described above for baseline ozone emissions estimation. The baseline PM emissions for buildout of the annexation area is presented in Table 7.

Table 7			
Baseline Operational PM Emissions			
PM₁₀ (lbs/day)	PM₁₀ (tons/yr)	PM_{2.5} (lbs/day)	PM_{2.5} (tons/yr)
651.27	102.04	181.87	28.58
Source: CalEEMod, July 2021 (see Attachment A).			

Similar to ozone precursors, much of the PM emissions related to the project would be related to mobile sources of emissions. Therefore, the application of the on-model mitigation measures presented above would result in a total reduction of PM emissions as shown in Table 8 below. As shown in the table, on-model mitigation measures applied to the proposed project would achieve reductions in PM emissions.

Table 8				
Total Reduction of Emissions Due to On-Model Mitigation Measures				
	PM₁₀ (lbs/day)	PM₁₀ (tons/year)	PM_{2.5} (lbs/day)	PM_{2.5} (tons/year)
Baseline Emissions	651.27	102.04	181.87	28.58
Mitigated Emissions	427.52	74.97	121.81	21.29
Total Reduction from Baseline	223.75	27.07	60.06	7.29
PERCENT REDUCTION	34.36%	26.53%	33.02%	25.51%
Source: CalEEMod, July 2021; and CalEEMod, March 2022 (see Attachment A).				

Adopted methodology for estimating off-model reductions from PM emissions is not available at this time. However, the consumption of natural gas is not known to result in emissions of PM and, thus, application of Off-Model Measure 3, No Natural Gas in Residential Land Uses (M-n), is not expected to result in any additional PM reductions.

SOURCES

The following documents are referenced information sources used for the purposes of this AQMP:

1. California Air Pollution Control Officers Association (CAPCOA). *California Emissions Estimator Model User's Guide Version 2020.4.0*. May 2021.
2. California Air Pollution Control Officers Association. *Quantifying Greenhouse Gas Mitigation Measures*. August 2010.
3. California Commercial. *End Use Survey, Annual Summary Statistics*. Available at: <http://capabilities.itron.com/CeusWeb/Chart.aspx>. Accessed February 2020.
4. California Energy Commission. *California Residential Appliance Saturation Study, Volume 2: Study Results*. Available at: https://webtools.dnvgl.com/RASS2009/Uploads/2009_RASS_Volume%202_FINAL_101310.pdf. Accessed April 2020.
5. El Dorado Air Quality Management District, Feather River Air Quality Management District, Placer County Air Pollution Control District, Sacramento Metropolitan Air Quality Management District, Yolo-Solano Air Quality Management District. *Sacramento Regional 2008 NAAQS 8-Hour Ozone Attainment and Reasonable Further Progress Plan*. July 24, 2017.
6. Fehr and Peers. *Draft Technical Memorandum #2: Upper Westside Specific Plan – Project Trip Generation*. December 8, 2020.
7. Sacramento Metropolitan Air Quality Management District. *Recommended Guidance for Land Use Emission Reductions Version 4.3 (for Operational Emissions)*. February 10, 2021.
8. Sacramento Metropolitan Air Quality Management District. *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan*. September 26, 2013.
9. Upper Westside LLC. *Air Quality and Greenhouse Gas Impact Analysis Upper Westside Specific Plan Project*. March 2022.

Attachment A

AQMP CalEEMod Modeling Outputs

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - AQMP Baseline
Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

(lb/MW hr)

(lb/MW hr)

(lb/MW hr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0

2.0 Emissions Summary

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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					
2023	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396
Maximum	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396
Maximum	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396

	ROG	NOx	CO	SO2	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

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	6-1-2023	8-31-2023	0.0108	0.0108
		Highest	0.0108	0.0108

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	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Energy	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	1.8672	0.4502	14,161.5185
Mobile	34.4487	39.5473	346.7177	0.6950	100.1840	0.3407	100.5247	26.7463	0.3186	27.0649	0.0000	70,842.2144	70,842.2144	4.7046	3.4351	71,983.4876
Waste						0.0000	0.0000		0.0000	0.0000	2,580.0882	0.0000	2,580.0882	152.4789	0.0000	6,392.0594
Water						0.0000	0.0000		0.0000	0.0000	371.1318	0.0000	371.1318	1.3887	0.8206	650.3796
Total	115.3812	53.0578	450.4530	0.7772	100.1840	1.8523	102.0363	26.7463	1.8302	28.5764	2,951.2200	84,980.7653	87,931.9853	160.5900	4.7058	93,349.0687

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Energy	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	1.8672	0.4502	14,161.5185
Mobile	34.4487	39.5473	346.7177	0.6950	100.1840	0.3407	100.5247	26.7463	0.3186	27.0649	0.0000	70,842.2144	70,842.2144	4.7046	3.4351	71,983.4876
Waste						0.0000	0.0000		0.0000	0.0000	2,580.0882	0.0000	2,580.0882	152.4789	0.0000	6,392.0594
Water						0.0000	0.0000		0.0000	0.0000	371.1318	0.0000	371.1318	1.3887	0.8206	650.3796
Total	115.3812	53.0578	450.4530	0.7772	100.1840	1.8523	102.0363	26.7463	1.8302	28.5764	2,951.2200	84,980.7653	87,931.9853	160.5900	4.7058	93,349.0687

	ROG	NOx	CO	SO2	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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0138	9.1200e-003	2.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861
Total	1.3300e-003	0.0138	9.1200e-003	2.0000e-005	9.8300e-003	6.3000e-004	0.0105	5.0500e-003	5.8000e-004	5.6300e-003	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0138	9.1200e-003	2.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861
Total	1.3300e-003	0.0138	9.1200e-003	2.0000e-005	9.8300e-003	6.3000e-004	0.0105	5.0500e-003	5.8000e-004	5.6300e-003	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Mitigated	34.4487	39.5473	346.7177	0.6950	100.1840	0.3407	100.5247	26.7463	0.3186	27.0649	0.0000	70,842.21 44	70,842.21 44	4.7046	3.4351	71,983.48 76
Unmitigated	34.4487	39.5473	346.7177	0.6950	100.1840	0.3407	100.5247	26.7463	0.3186	27.0649	0.0000	70,842.21 44	70,842.21 44	4.7046	3.4351	71,983.48 76

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	27,140.16	24,495.99	20405.01	66,206,272	66,206,272
Arena	771.12	771.12	771.12	1,084,591	1,084,591
Fast Food Restaurant with Drive Thru	11,302.80	14,786.88	11341.92	8,155,601	8,155,601
General Office Building	15,321.02	3,476.33	1101.10	23,950,052	23,950,052
Government Office Building	1,671.66	0.00	0.00	1,716,849	1,716,849
Health Club	2,140.45	1,356.55	1737.45	2,722,032	2,722,032
High School	3,045.00	870.00	375.00	6,128,331	6,128,331
High Turnover (Sit Down Restaurant)	11,666.72	12,729.60	14834.56	10,904,068	10,904,068
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Junior College (2yr)	2,875.00	1,050.00	100.00	4,083,979	4,083,979
Junior High School	6,390.00	0.00	0.00	10,046,714	10,046,714
Medical Office Building	1,447.68	356.51	59.07	1,821,430	1,821,430
Regional Shopping Center	9,248.75	11,299.40	5169.50	12,518,386	12,518,386

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	41,224.48	41,661.18	37337.85	104,521,810	104,521,810
Supermarket	6,940.70	11,545.30	10820.55	7,015,866	7,015,866
Total	148,040.74	131,114.66	108,932.13	270,956,479	270,956,479

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	1.5992	0.1938	97.7445
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	1.5992	0.1938	97.7445
NaturalGas Mitigated	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.69 37	13,980.69 37	0.2680	0.2563	14,063.77 40
NaturalGas Unmitigated	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.69 37	13,980.69 37	0.2680	0.2563	14,063.77 40

5.2 Energy by Land Use - NaturalGas**Unmitigated**

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.69776e+007	0.2533	2.1647	0.9211	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.9021	2,506.9021	0.0481	0.0460	2,521.7994
Arena	2.56104e+006	0.0138	0.1255	0.1055	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	136.6669	136.6669	2.6200e-003	2.5100e-003	137.4790
Fast Food Restaurant with Drive Thru	4.25064e+006	0.0229	0.2084	0.1750	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.8303	226.8303	4.3500e-003	4.1600e-003	228.1783
General Office Building	2.04175e+007	0.1101	1.0009	0.8407	6.0100e-003		0.0761	0.0761		0.0761	0.0761	0.0000	1,089.5577	1,089.5577	0.0209	0.0200	1,096.0324
Government Office Building	960520	5.1800e-003	0.0471	0.0396	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2570	51.2570	9.8000e-004	9.4000e-004	51.5616
Health Club	2.31205e+006	0.0125	0.1133	0.0952	6.8000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	123.3798	123.3798	2.3600e-003	2.2600e-003	124.1130
High School	3.00875e+006	0.0162	0.1475	0.1239	8.8000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.5584	160.5584	3.0800e-003	2.9400e-003	161.5125
High Turnover (Sit Down Restaurant)	1.84194e+007	0.0993	0.9029	0.7585	5.4200e-003		0.0686	0.0686		0.0686	0.0686	0.0000	982.9315	982.9315	0.0188	0.0180	988.7725
Hotel	2.2765e+007	0.2455	2.2319	1.8748	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.6581	2,429.6581	0.0466	0.0445	2,444.0964
Junior College (2yr)	5.40384e+006	0.0291	0.2649	0.2225	1.5900e-003		0.0201	0.0201		0.0201	0.0201	0.0000	288.3695	288.3695	5.5300e-003	5.2900e-003	290.0831
Junior High School	5.3326e+006	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199	0.0000	284.5677	284.5677	5.4500e-003	5.2200e-003	286.2588
Medical Office Building	539968	2.9100e-003	0.0265	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8148	28.8148	5.5000e-004	5.3000e-004	28.9860
Regional Shopping Center	1.31565e+006	7.0900e-003	0.0645	0.0542	3.9000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	70.2081	70.2081	1.3500e-003	1.2900e-003	70.6253
Single Family Housing	1.03318e+008	0.5571	4.7607	2.0258	0.0304		0.3849	0.3849		0.3849	0.3849	0.0000	5,513.4432	5,513.4432	0.1057	0.1011	5,546.2068
Supermarket	1.6406e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5487	87.5487	1.6800e-003	1.6100e-003	88.0689
Total		1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	0.2680	0.2563	14,063.7740

5.2 Energy by Land Use - NaturalGas

Mitigated

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

	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					
Apartments Mid Rise	4.69776e+007	0.2533	2.1647	0.9211	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.9021	2,506.9021	0.0481	0.0460	2,521.7994
Arena	2.56104e+006	0.0138	0.1255	0.1055	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	136.6669	136.6669	2.6200e-003	2.5100e-003	137.4790
Fast Food Restaurant with Drive Thru	4.25064e+006	0.0229	0.2084	0.1750	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.8303	226.8303	4.3500e-003	4.1600e-003	228.1783
General Office Building	2.04175e+007	0.1101	1.0009	0.8407	6.0100e-003		0.0761	0.0761		0.0761	0.0761	0.0000	1,089.5577	1,089.5577	0.0209	0.0200	1,096.0324
Government Office Building	960520	5.1800e-003	0.0471	0.0396	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2570	51.2570	9.8000e-004	9.4000e-004	51.5616
Health Club	2.31205e+006	0.0125	0.1133	0.0952	6.8000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	123.3798	123.3798	2.3600e-003	2.2600e-003	124.1130
High School	3.00875e+006	0.0162	0.1475	0.1239	8.8000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.5584	160.5584	3.0800e-003	2.9400e-003	161.5125
High Turnover (Sit Down Restaurant)	1.84194e+007	0.0993	0.9029	0.7585	5.4200e-003		0.0686	0.0686		0.0686	0.0686	0.0000	982.9315	982.9315	0.0188	0.0180	988.7725
Hotel	2.2765e+007	0.2455	2.2319	1.8748	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.6581	2,429.6581	0.0466	0.0445	2,444.0964
Junior College (2yr)	5.40384e+006	0.0291	0.2649	0.2225	1.5900e-003		0.0201	0.0201		0.0201	0.0201	0.0000	288.3695	288.3695	5.5300e-003	5.2900e-003	290.0831
Junior High School	5.3326e+006	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199	0.0000	284.5677	284.5677	5.4500e-003	5.2200e-003	286.2588
Medical Office Building	539968	2.9100e-003	0.0265	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8148	28.8148	5.5000e-004	5.3000e-004	28.9860
Regional Shopping Center	1.31565e+006	7.0900e-003	0.0645	0.0542	3.9000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	70.2081	70.2081	1.3500e-003	1.2900e-003	70.6253
Single Family Housing	1.03318e+008	0.5571	4.7607	2.0258	0.0304		0.3849	0.3849		0.3849	0.3849	0.0000	5,513.4432	5,513.4432	0.1057	0.1011	5,546.2068
Supermarket	1.6406e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5487	87.5487	1.6800e-003	1.6100e-003	88.0689
Total		1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	0.2680	0.2563	14,063.7740

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments Mid Rise	1.94258e+007	0.0000	0.2908	0.0353	17.7726
Arena	1.06704e+006	0.0000	0.0160	1.9400e-003	0.9762
Fast Food Restaurant with Drive Thru	978480	0.0000	0.0147	1.7800e-003	0.8952
General Office Building	2.18647e+007	0.0000	0.3273	0.0397	20.0039
Government Office Building	1.0286e+006	0.0000	0.0154	1.8700e-003	0.9411
Health Club	963300	0.0000	0.0144	1.7500e-003	0.8813
High School	1.41284e+006	0.0000	0.0212	2.5600e-003	1.2926
High Turnover (Sit Down Restaurant)	4.24008e+006	0.0000	0.0635	7.6900e-003	3.8792
Hotel	5.60791e+006	0.0000	0.1679	0.0204	10.2613
Junior College (2yr)	1.69104e+006	0.0000	0.0253	3.0700e-003	1.5471
Junior High School	2.50406e+006	0.0000	0.0375	4.5400e-003	2.2910
Medical Office Building	578240	0.0000	8.6600e-003	1.0500e-003	0.5290
Regional Shopping Center	2.7489e+006	0.0000	0.0412	4.9900e-003	2.5150
Single Family Housing	3.45316e+007	0.0000	0.5169	0.0627	31.5928
Supermarket	2.58635e+006	0.0000	0.0387	4.6900e-003	2.3662
Total		0.0000	1.5992	0.1939	97.7445

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.94258e+007	0.0000	0.2908	0.0353	17.7726
Arena	1.06704e+006	0.0000	0.0160	1.9400e-003	0.9762
Fast Food Restaurant with Drive Thru	978480	0.0000	0.0147	1.7800e-003	0.8952
General Office Building	2.18647e+007	0.0000	0.3273	0.0397	20.0039
Government Office Building	1.0286e+006	0.0000	0.0154	1.8700e-003	0.9411
Health Club	963300	0.0000	0.0144	1.7500e-003	0.8813
High School	1.41284e+006	0.0000	0.0212	2.5600e-003	1.2926
High Turnover (Sit Down Restaurant)	4.24008e+006	0.0000	0.0635	7.6900e-003	3.8792
Hotel	5.60791e+006	0.0000	0.1679	0.0204	10.2613
Junior College (2yr)	1.69104e+006	0.0000	0.0253	3.0700e-003	1.5471
Junior High School	2.50406e+006	0.0000	0.0375	4.5400e-003	2.2910
Medical Office Building	578240	0.0000	8.6600e-003	1.0500e-003	0.5290
Regional Shopping Center	2.7489e+006	0.0000	0.0412	4.9900e-003	2.5150
Single Family Housing	3.45316e+007	0.0000	0.5169	0.0627	31.5928
Supermarket	2.58635e+006	0.0000	0.0387	4.6900e-003	2.3662
Total		0.0000	1.5992	0.1939	97.7445

6.0 Area Detail

AQMP - Baseline

6.1 Mitigation Measures Area

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Unmitigated	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

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	9.9935					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	66.6416					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8848	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Total	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Architectural Coating	9.9935					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	66.6416					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8848	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Total	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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	371.1318	1.3887	0.8206	650.3796
Unmitigated	371.1318	1.3887	0.8206	650.3796

7.2 Water by Land Use**Unmitigated**

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	325.053 / 204.925	115.0044	0.4308	0.2543	201.5671
Arena	31.0154 / 1.97971	10.9733	0.0402	0.0242	19.1766
Fast Food Restaurant with Drive Thru	7.28481 / 0.464988	2.5774	9.4400e- 003	5.6700e- 003	4.5041
General Office Building	279.575 / 171.353	98.9141	0.3703	0.2187	173.3502
Government Office Building	14.7008 / 9.01018	5.2012	0.0195	0.0115	9.1152
Health Club	3.8443 / 2.35619	1.3601	5.0900e- 003	3.0100e- 003	2.3837
High School	6.60744 / 16.9906	2.3377	9.4300e- 003	5.2500e- 003	4.1384
High Turnover (Sit Down Restaurant)	31.5675 / 2.01495	11.1686	0.0409	0.0246	19.5179
Hotel	20.8008 / 2.31119	7.3593	0.0270	0.0162	12.8641
Junior College (2yr)	5.35275 / 8.37225	1.8938	7.3600e- 003	4.2200e- 003	3.3353
Junior High School	7.27272 / 18.7013	2.5731	0.0104	5.7800e- 003	4.5551
Medical Office Building	5.21999 / 0.994284	1.8468	6.8000e- 003	4.0700e- 003	3.2296
Regional Shopping Center	18.1478 / 11.1228	6.4207	0.0240	0.0142	11.2525
Single Family Housing	284.528 / 179.376	100.6663	0.3771	0.2226	176.4369
Supermarket	8.01243 / 0.247807	2.8348	0.0104	6.2400e- 003	4.9532
Total		371.1318	1.3887	0.8206	650.3796

7.2 Water by Land Use**Mitigated**

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	325.053 / 204.925	115.0044	0.4308	0.2543	201.5671
Arena	31.0154 / 1.97971	10.9733	0.0402	0.0242	19.1766
Fast Food Restaurant with Drive Thru	7.28481 / 0.464988	2.5774	9.4400e-003	5.6700e-003	4.5041
General Office Building	279.575 / 171.353	98.9141	0.3703	0.2187	173.3502
Government Office Building	14.7008 / 9.01018	5.2012	0.0195	0.0115	9.1152
Health Club	3.8443 / 2.35619	1.3601	5.0900e-003	3.0100e-003	2.3837
High School	6.60744 / 16.9906	2.3377	9.4300e-003	5.2500e-003	4.1384
High Turnover (Sit Down Restaurant)	31.5675 / 2.01495	11.1686	0.0409	0.0246	19.5179
Hotel	20.8008 / 2.31119	7.3593	0.0270	0.0162	12.8641
Junior College (2yr)	5.35275 / 8.37225	1.8938	7.3600e-003	4.2200e-003	3.3353
Junior High School	7.27272 / 18.7013	2.5731	0.0104	5.7800e-003	4.5551
Medical Office Building	5.21999 / 0.994284	1.8468	6.8000e-003	4.0700e-003	3.2296
Regional Shopping Center	18.1478 / 11.1228	6.4207	0.0240	0.0142	11.2525
Single Family Housing	284.528 / 179.376	100.6663	0.3771	0.2226	176.4369
Supermarket	8.01243 / 0.247807	2.8348	0.0104	6.2400e-003	4.9532
Total		371.1318	1.3887	0.8206	650.3796

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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 WasteCategory/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,580.088 2	152.4789	0.0000	6,392.059 4
Unmitigated	2,580.088 2	152.4789	0.0000	6,392.059 4

8.2 Waste by Land UseUnmitigated

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2294.94	465.8521	27.5311	0.0000	1,154.1288
Arena	1.98	0.4019	0.0238	0.0000	0.9958
Fast Food Restaurant with Drive Thru	276.45	56.1169	3.3164	0.0000	139.0271
General Office Building	1462.89	296.9535	17.5495	0.0000	735.6896
Government Office Building	68.82	13.9698	0.8256	0.0000	34.6097
Health Club	370.5	75.2082	4.4447	0.0000	186.3250
High School	273.75	55.5688	3.2840	0.0000	137.6693
High Turnover (Sit Down Restaurant)	1237.6	251.2216	14.8468	0.0000	622.3909
Hotel	448.95	91.1328	5.3858	0.0000	225.7776
Junior College (2yr)	456.25	92.6146	5.4734	0.0000	229.4488
Junior High School	547.5	111.1376	6.5680	0.0000	275.3386
Medical Office Building	449.28	91.1998	5.3898	0.0000	225.9436
Regional Shopping Center	257.25	52.2194	3.0861	0.0000	129.3714
Single Family Housing	4197.6	852.0749	50.3562	0.0000	2,110.9794
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
Total		2,580.0882	152.4788	0.0000	6,392.0593

8.2 Waste by Land Use**Mitigated**

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2294.94	465.8521	27.5311	0.0000	1,154.1288
Arena	1.98	0.4019	0.0238	0.0000	0.9958
Fast Food Restaurant with Drive Thru	276.45	56.1169	3.3164	0.0000	139.0271
General Office Building	1462.89	296.9535	17.5495	0.0000	735.6896
Government Office Building	68.82	13.9698	0.8256	0.0000	34.6097
Health Club	370.5	75.2082	4.4447	0.0000	186.3250
High School	273.75	55.5688	3.2840	0.0000	137.6693
High Turnover (Sit Down Restaurant)	1237.6	251.2216	14.8468	0.0000	622.3909
Hotel	448.95	91.1328	5.3858	0.0000	225.7776
Junior College (2yr)	456.25	92.6146	5.4734	0.0000	229.4488
Junior High School	547.5	111.1376	6.5680	0.0000	275.3386
Medical Office Building	449.28	91.1998	5.3898	0.0000	225.9436
Regional Shopping Center	257.25	52.2194	3.0861	0.0000	129.3714
Single Family Housing	4197.6	852.0749	50.3562	0.0000	2,110.9794
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
Total		2,580.0882	152.4788	0.0000	6,392.0593

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

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

UWSP - AQMP Baseline

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

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

(lb/MW hr)

(lb/MW hr)

(lb/MW hr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0

2.0 Emissions Summary

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1
Maximum	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1
Maximum	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1

	ROG	NOx	CO	SO2	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

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	274.3964	226.6810	2,268.347 9	4.6116	639.5317	2.1098	641.6415	170.2646	1.9730	172.2376		518,564.0 652	518,564.0 652	30.9931	22.6061	526,075.5 057
Total	725.1336	303.5086	3,079.210 3	5.0746	639.5317	11.7420	651.2737	170.2646	11.6052	181.8699	0.0000	604,400.3 837	604,400.3 837	33.9402	24.1542	612,446.8 492

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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	274.3964	226.6810	2,268.347 9	4.6116	639.5317	2.1098	641.6415	170.2646	1.9730	172.2376		518,564.0 652	518,564.0 652	30.9931	22.6061	526,075.5 057
Total	725.1336	303.5086	3,079.210 3	5.0746	639.5317	11.7420	651.2737	170.2646	11.6052	181.8699	0.0000	604,400.3 837	604,400.3 837	33.9402	24.1542	612,446.8 492

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

AQMP - Baseline

3.1 Mitigation Measures Construction

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	274.3964	226.6810	2,268.3479	4.6116	639.5317	2.1098	641.6415	170.2646	1.9730	172.2376		518,564.0652	518,564.0652	30.9931	22.6061	526,075.5057
Unmitigated	274.3964	226.6810	2,268.3479	4.6116	639.5317	2.1098	641.6415	170.2646	1.9730	172.2376		518,564.0652	518,564.0652	30.9931	22.6061	526,075.5057

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartments Mid Rise	27,140.16	24,495.99	20405.01	66,206,272	66,206,272
Arena	771.12	771.12	771.12	1,084,591	1,084,591
Fast Food Restaurant with Drive Thru	11,302.80	14,786.88	11341.92	8,155,601	8,155,601
General Office Building	15,321.02	3,476.33	1101.10	23,950,052	23,950,052
Government Office Building	1,671.66	0.00	0.00	1,716,849	1,716,849
Health Club	2,140.45	1,356.55	1737.45	2,722,032	2,722,032
High School	3,045.00	870.00	375.00	6,128,331	6,128,331
High Turnover (Sit Down Restaurant)	11,666.72	12,729.60	14834.56	10,904,068	10,904,068
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Junior College (2yr)	2,875.00	1,050.00	100.00	4,083,979	4,083,979
Junior High School	6,390.00	0.00	0.00	10,046,714	10,046,714
Medical Office Building	1,447.68	356.51	59.07	1,821,430	1,821,430
Regional Shopping Center	9,248.75	11,299.40	5169.50	12,518,386	12,518,386

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	41,224.48	41,661.18	37337.85	104,521,810	104,521,810
Supermarket	6,940.70	11,545.30	10820.55	7,015,866	7,015,866
Total	148,040.74	131,114.66	108,932.13	270,956,479	270,956,479

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

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

Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663
NaturalGas Unmitigated	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663

5.2 Energy by Land Use - NaturalGas

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

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

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					
Apartments Mid Rise	128706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7016.55	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11645.6	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55938.5	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2631.56	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6334.38	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8243.15	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50464.2	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62370	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14609.9	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1479.36	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3604.52	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4494.79	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Summer

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

	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					
Apartments Mid Rise	128.706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7.01655	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11.6456	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55.9385	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2.63156	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6.33438	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8.24315	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50.4642	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62.37	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14.805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14.6099	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1.47936	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3.60452	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283.063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4.49479	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

6.0 Area Detail

AQMP - Baseline

6.1 Mitigation Measures Area

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Unmitigated	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

7.0 Water Detail

7.1 Mitigation Measures Water

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

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

UWSP - AQMP Baseline
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

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

(lb/MW hr)

(lb/MW hr)

(lb/MW hr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0

2.0 Emissions Summary

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4
Maximum	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4
Maximum	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4

	ROG	NOx	CO	SO2	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

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	202.9249	263.0707	2,327.916 6	4.2128	639.5317	2.1118	641.6435	170.2646	1.9750	172.2396		473,293.1 532	473,293.1 532	34.1476	24.7012	481,507.7 914
Total	653.6621	339.8983	3,138.779 0	4.6759	639.5317	11.7441	651.2758	170.2646	11.6072	181.8719	0.0000	559,129.4 717	559,129.4 717	37.0947	26.2493	567,879.1 349

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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	202.9249	263.0707	2,327.916 6	4.2128	639.5317	2.1118	641.6435	170.2646	1.9750	172.2396		473,293.1 532	473,293.1 532	34.1476	24.7012	481,507.7 914
Total	653.6621	339.8983	3,138.779 0	4.6759	639.5317	11.7441	651.2758	170.2646	11.6072	181.8719	0.0000	559,129.4 717	559,129.4 717	37.0947	26.2493	567,879.1 349

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

AQMP - Baseline

3.1 Mitigation Measures Construction

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	202.9249	263.0707	2,327.9166	4.2128	639.5317	2.1118	641.6435	170.2646	1.9750	172.2396		473,293.1532	473,293.1532	34.1476	24.7012	481,507.7914
Unmitigated	202.9249	263.0707	2,327.9166	4.2128	639.5317	2.1118	641.6435	170.2646	1.9750	172.2396		473,293.1532	473,293.1532	34.1476	24.7012	481,507.7914

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	27,140.16	24,495.99	20405.01	66,206,272	66,206,272
Arena	771.12	771.12	771.12	1,084,591	1,084,591
Fast Food Restaurant with Drive Thru	11,302.80	14,786.88	11341.92	8,155,601	8,155,601
General Office Building	15,321.02	3,476.33	1101.10	23,950,052	23,950,052
Government Office Building	1,671.66	0.00	0.00	1,716,849	1,716,849
Health Club	2,140.45	1,356.55	1737.45	2,722,032	2,722,032
High School	3,045.00	870.00	375.00	6,128,331	6,128,331
High Turnover (Sit Down Restaurant)	11,666.72	12,729.60	14834.56	10,904,068	10,904,068
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Hotel	3,427.60	3,357.90	2439.50	5,040,249	5,040,249
Junior College (2yr)	2,875.00	1,050.00	100.00	4,083,979	4,083,979
Junior High School	6,390.00	0.00	0.00	10,046,714	10,046,714
Medical Office Building	1,447.68	356.51	59.07	1,821,430	1,821,430
Regional Shopping Center	9,248.75	11,299.40	5169.50	12,518,386	12,518,386

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	41,224.48	41,661.18	37337.85	104,521,810	104,521,810
Supermarket	6,940.70	11,545.30	10820.55	7,015,866	7,015,866
Total	148,040.74	131,114.66	108,932.13	270,956,479	270,956,479

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down)	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

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

Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663
NaturalGas Unmitigated	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663

5.2 Energy by Land Use - NaturalGas

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

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

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					
Apartments Mid Rise	128706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7016.55	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11645.6	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55938.5	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2631.56	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6334.38	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8243.15	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50464.2	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62370	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14609.9	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1479.36	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3604.52	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4494.79	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

AQMP - Baseline

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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 - Natural Gas

Mitigated

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, Winter

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

	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					
Apartments Mid Rise	128.706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7.01655	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11.6456	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55.9385	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2.63156	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6.33438	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8.24315	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50.4642	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62.37	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14.805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14.6099	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1.47936	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3.60452	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283.063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4.49479	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

6.0 Area Detail

AQMP - Baseline

6.1 Mitigation Measures Area

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Unmitigated	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

7.0 Water Detail**7.1 Mitigation Measures Water**

UWSP - AQMP Baseline - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - AQMP Baseline**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Sacramento Metropolitan AQMD Air District, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Rubber Tired Dozers	1.03000E-003	1.06900E-002	4.66000E-003	1.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.12536E+000	1.12536E+000	3.60000E-004	0.00000E+000	1.13446E+000
Tractors/Loaders/Backhoes	3.00000E-004	3.07000E-003	4.46000E-003	1.00000E-005	1.50000E-004	1.40000E-004	0.00000E+000	5.47170E-001	5.47170E-001	1.80000E-004	0.00000E+000	5.51600E-001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Rubber Tired Dozers	1.03000E-003	1.06900E-002	4.66000E-003	1.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.12536E+000	1.12536E+000	3.60000E-004	0.00000E+000	1.13446E+000
Tractors/Loaders/Backhoes	3.00000E-004	3.07000E-003	4.46000E-003	1.00000E-005	1.50000E-004	1.40000E-004	0.00000E+000	5.47170E-001	5.47170E-001	1.80000E-004	0.00000E+000	5.51590E-001

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.81291E-005

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction		
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00	
No	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Site Preparation	Fugitive Dust	0.01	0.01	0.01	0.01	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

UWSP - AQMP Baseline**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

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

No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			

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

No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00	2.00	
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

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

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	

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

No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Proposed Project

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

AQMP - Project Features

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

(lb/MW hr)

(lb/MW hr)

(lb/MW hr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Mobile Commute Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	4.91	3.69
tblVehicleTrips	ST_TR	10.71	19.54
tblVehicleTrips	ST_TR	616.12	319.28
tblVehicleTrips	ST_TR	2.21	6.75
tblVehicleTrips	ST_TR	0.00	15.40
tblVehicleTrips	ST_TR	20.87	18.04
tblVehicleTrips	ST_TR	0.58	1.38
tblVehicleTrips	ST_TR	122.40	75.90
tblVehicleTrips	ST_TR	8.19	4.20
tblVehicleTrips	ST_TR	0.42	1.92
tblVehicleTrips	ST_TR	0.00	1.44
tblVehicleTrips	ST_TR	8.57	24.62
tblVehicleTrips	ST_TR	46.12	37.49

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

tblVehicleTrips	ST_TR	9.54	6.40
tblVehicleTrips	ST_TR	177.62	66.32
tblVehicleTrips	SU_TR	4.09	3.69
tblVehicleTrips	SU_TR	10.71	19.54
tblVehicleTrips	SU_TR	472.58	319.28
tblVehicleTrips	SU_TR	0.70	6.75
tblVehicleTrips	SU_TR	0.00	15.40
tblVehicleTrips	SU_TR	26.73	18.04
tblVehicleTrips	SU_TR	0.25	1.38
tblVehicleTrips	SU_TR	142.64	75.90
tblVehicleTrips	SU_TR	5.95	4.20
tblVehicleTrips	SU_TR	0.04	1.92
tblVehicleTrips	SU_TR	0.00	1.44
tblVehicleTrips	SU_TR	1.42	24.62
tblVehicleTrips	SU_TR	21.10	37.49
tblVehicleTrips	SU_TR	8.55	6.40
tblVehicleTrips	SU_TR	166.47	66.32
tblVehicleTrips	WD_TR	5.44	3.69
tblVehicleTrips	WD_TR	10.71	19.54
tblVehicleTrips	WD_TR	470.95	319.28
tblVehicleTrips	WD_TR	9.74	6.75
tblVehicleTrips	WD_TR	22.59	15.40
tblVehicleTrips	WD_TR	32.93	18.04
tblVehicleTrips	WD_TR	2.03	1.38
tblVehicleTrips	WD_TR	112.18	75.90
tblVehicleTrips	WD_TR	8.36	4.20
tblVehicleTrips	WD_TR	1.15	1.92
tblVehicleTrips	WD_TR	2.13	1.44
tblVehicleTrips	WD_TR	34.80	24.62

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

tblVehicleTrips	WD_TR	37.75	37.49
tblVehicleTrips	WD_TR	9.44	6.40
tblVehicleTrips	WD_TR	106.78	66.32

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396
Maximum	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396
Maximum	1.3600e-003	0.0138	9.3300e-003	2.0000e-005	9.8900e-003	6.3000e-004	0.0105	5.0700e-003	5.8000e-004	5.6500e-003	0.0000	1.7256	1.7256	5.4000e-004	0.0000	1.7396

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	0.0108	0.0108
		Highest	0.0108	0.0108

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	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Energy	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	1.8672	0.4502	14,161.5185
Mobile	26.0378	29.9396	262.5933	0.5275	76.0629	0.2584	76.3213	20.3066	0.2417	20.5483	0.0000	53,767.9104	53,767.9104	3.5637	2.6016	54,632.2733
Waste						0.0000	0.0000		0.0000	0.0000	2,580.0882	0.0000	2,580.0882	152.4789	0.0000	6,392.0594
Water						0.0000	0.0000		0.0000	0.0000	371.1318	0.0000	371.1318	1.3887	0.8206	650.3796
Total	106.9703	43.4500	366.3287	0.6097	76.0629	1.7699	77.8329	20.3066	1.7532	22.0598	2,951.2200	67,906.4612	70,857.6813	159.4490	3.8723	75,997.8544

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Energy	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	1.8672	0.4502	14,161.5185
Mobile	25.5656	29.1877	255.5277	0.5085	73.2063	0.2499	73.4562	19.5440	0.2337	19.7777	0.0000	51,825.4818	51,825.4818	3.4655	2.5318	52,666.5970
Waste						0.0000	0.0000		0.0000	0.0000	2,580.0882	0.0000	2,580.0882	152.4789	0.0000	6,392.0594
Water						0.0000	0.0000		0.0000	0.0000	371.1318	0.0000	371.1318	1.3821	0.8198	649.9760
Total	106.4982	42.6981	359.2630	0.5906	73.2063	1.7615	74.9677	19.5440	1.7453	21.2892	2,951.2200	65,964.0327	68,915.2527	159.3442	3.8017	74,031.7746

	ROG	NOx	CO	SO2	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	0.44	1.73	1.93	3.12	3.76	0.48	3.68	3.76	0.45	3.49	0.00	2.86	2.74	0.07	1.82	2.59

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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0138	9.1200e-003	2.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861
Total	1.3300e-003	0.0138	9.1200e-003	2.0000e-005	9.8300e-003	6.3000e-004	0.0105	5.0500e-003	5.8000e-004	5.6300e-003	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0138	9.1200e-003	2.0000e-005		6.3000e-004	6.3000e-004		5.8000e-004	5.8000e-004	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861
Total	1.3300e-003	0.0138	9.1200e-003	2.0000e-005	9.8300e-003	6.3000e-004	0.0105	5.0500e-003	5.8000e-004	5.6300e-003	0.0000	1.6725	1.6725	5.4000e-004	0.0000	1.6861

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535
Total	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0530	0.0530	0.0000	0.0000	0.0535

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive 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	25.5656	29.1877	255.5277	0.5085	73.2063	0.2499	73.4562	19.5440	0.2337	19.7777	0.0000	51,825.4818	51,825.4818	3.4655	2.5318	52,666.5970
Unmitigated	26.0378	29.9396	262.5933	0.5275	76.0629	0.2584	76.3213	20.3066	0.2417	20.5483	0.0000	53,767.9104	53,767.9104	3.5637	2.6016	54,632.2733

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	18,409.41	18,409.41	18409.41	47,240,553	45,746,716
Arena	1,406.88	1,406.88	1406.88	1,978,797	1,896,904
Fast Food Restaurant with Drive Thru	7,662.72	7,662.72	7662.72	5,293,366	5,072,665
General Office Building	10,617.75	10,617.75	10617.75	21,926,757	20,953,580
Government Office Building	1,139.60	1,139.60	1139.60	1,638,569	1,554,363
Health Club	1,172.60	1,172.60	1172.60	1,619,497	1,549,660
High School	2,070.00	2,070.00	2070.00	5,391,592	5,111,004
High Turnover (Sit Down Restaurant)	7,893.60	7,893.60	7893.60	7,014,228	6,717,207
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,534,167
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,534,167
Junior College (2yr)	4,800.00	4,800.00	4800.00	8,838,757	8,390,216
Junior High School	4,320.00	4,320.00	4320.00	9,509,003	9,014,679
Medical Office Building	1,024.19	1,024.19	1024.19	1,706,100	1,630,791

AQMP - Project Features

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	9,185.05	9,185.05	9185.05	12,834,316	12,281,553
Single Family Housing	27,948.80	27,948.80	27948.80	71,719,667	69,451,754
Supermarket	4,310.80	4,310.80	4310.80	3,709,662	3,553,347
Total	105,405.40	105,405.40	105,405.40	205,718,801	197,992,772

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	1.5992	0.1938	97.7445
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	1.5992	0.1938	97.7445
NaturalGas Mitigated	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.69 37	13,980.69 37	0.2680	0.2563	14,063.77 40
NaturalGas Unmitigated	1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.69 37	13,980.69 37	0.2680	0.2563	14,063.77 40

5.2 Energy by Land Use - NaturalGas**Unmitigated**

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.69776e+007	0.2533	2.1647	0.9211	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.9021	2,506.9021	0.0481	0.0460	2,521.7994
Arena	2.56104e+006	0.0138	0.1255	0.1055	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	136.6669	136.6669	2.6200e-003	2.5100e-003	137.4790
Fast Food Restaurant with Drive Thru	4.25064e+006	0.0229	0.2084	0.1750	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.8303	226.8303	4.3500e-003	4.1600e-003	228.1783
General Office Building	2.04175e+007	0.1101	1.0009	0.8407	6.0100e-003		0.0761	0.0761		0.0761	0.0761	0.0000	1,089.5577	1,089.5577	0.0209	0.0200	1,096.0324
Government Office Building	960520	5.1800e-003	0.0471	0.0396	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2570	51.2570	9.8000e-004	9.4000e-004	51.5616
Health Club	2.31205e+006	0.0125	0.1133	0.0952	6.8000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	123.3798	123.3798	2.3600e-003	2.2600e-003	124.1130
High School	3.00875e+006	0.0162	0.1475	0.1239	8.8000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.5584	160.5584	3.0800e-003	2.9400e-003	161.5125
High Turnover (Sit Down Restaurant)	1.84194e+007	0.0993	0.9029	0.7585	5.4200e-003		0.0686	0.0686		0.0686	0.0686	0.0000	982.9315	982.9315	0.0188	0.0180	988.7725
Hotel	2.2765e+007	0.2455	2.2319	1.8748	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.6581	2,429.6581	0.0466	0.0445	2,444.0964
Junior College (2yr)	5.40384e+006	0.0291	0.2649	0.2225	1.5900e-003		0.0201	0.0201		0.0201	0.0201	0.0000	288.3695	288.3695	5.5300e-003	5.2900e-003	290.0831
Junior High School	5.3326e+006	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199	0.0000	284.5677	284.5677	5.4500e-003	5.2200e-003	286.2588
Medical Office Building	539968	2.9100e-003	0.0265	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8148	28.8148	5.5000e-004	5.3000e-004	28.9860
Regional Shopping Center	1.31565e+006	7.0900e-003	0.0645	0.0542	3.9000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	70.2081	70.2081	1.3500e-003	1.2900e-003	70.6253
Single Family Housing	1.03318e+008	0.5571	4.7607	2.0258	0.0304		0.3849	0.3849		0.3849	0.3849	0.0000	5,513.4432	5,513.4432	0.1057	0.1011	5,546.2068
Supermarket	1.6406e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5487	87.5487	1.6800e-003	1.6100e-003	88.0689
Total		1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	0.2680	0.2563	14,063.7740

5.2 Energy by Land Use - NaturalGas

Mitigated

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.69776e+007	0.2533	2.1647	0.9211	0.0138		0.1750	0.1750		0.1750	0.1750	0.0000	2,506.9021	2,506.9021	0.0481	0.0460	2,521.7994
Arena	2.56104e+006	0.0138	0.1255	0.1055	7.5000e-004		9.5400e-003	9.5400e-003		9.5400e-003	9.5400e-003	0.0000	136.6669	136.6669	2.6200e-003	2.5100e-003	137.4790
Fast Food Restaurant with Drive Thru	4.25064e+006	0.0229	0.2084	0.1750	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.8303	226.8303	4.3500e-003	4.1600e-003	228.1783
General Office Building	2.04175e+007	0.1101	1.0009	0.8407	6.0100e-003		0.0761	0.0761		0.0761	0.0761	0.0000	1,089.5577	1,089.5577	0.0209	0.0200	1,096.0324
Government Office Building	960520	5.1800e-003	0.0471	0.0396	2.8000e-004		3.5800e-003	3.5800e-003		3.5800e-003	3.5800e-003	0.0000	51.2570	51.2570	9.8000e-004	9.4000e-004	51.5616
Health Club	2.31205e+006	0.0125	0.1133	0.0952	6.8000e-004		8.6100e-003	8.6100e-003		8.6100e-003	8.6100e-003	0.0000	123.3798	123.3798	2.3600e-003	2.2600e-003	124.1130
High School	3.00875e+006	0.0162	0.1475	0.1239	8.8000e-004		0.0112	0.0112		0.0112	0.0112	0.0000	160.5584	160.5584	3.0800e-003	2.9400e-003	161.5125
High Turnover (Sit Down Restaurant)	1.84194e+007	0.0993	0.9029	0.7585	5.4200e-003		0.0686	0.0686		0.0686	0.0686	0.0000	982.9315	982.9315	0.0188	0.0180	988.7725
Hotel	2.2765e+007	0.2455	2.2319	1.8748	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.6581	2,429.6581	0.0466	0.0445	2,444.0964
Junior College (2yr)	5.40384e+006	0.0291	0.2649	0.2225	1.5900e-003		0.0201	0.0201		0.0201	0.0201	0.0000	288.3695	288.3695	5.5300e-003	5.2900e-003	290.0831
Junior High School	5.3326e+006	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199	0.0000	284.5677	284.5677	5.4500e-003	5.2200e-003	286.2588
Medical Office Building	539968	2.9100e-003	0.0265	0.0222	1.6000e-004		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	28.8148	28.8148	5.5000e-004	5.3000e-004	28.9860
Regional Shopping Center	1.31565e+006	7.0900e-003	0.0645	0.0542	3.9000e-004		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	70.2081	70.2081	1.3500e-003	1.2900e-003	70.6253
Single Family Housing	1.03318e+008	0.5571	4.7607	2.0258	0.0304		0.3849	0.3849		0.3849	0.3849	0.0000	5,513.4432	5,513.4432	0.1057	0.1011	5,546.2068
Supermarket	1.6406e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5487	87.5487	1.6800e-003	1.6100e-003	88.0689
Total		1.4127	12.4005	7.5461	0.0771		0.9760	0.9760		0.9760	0.9760	0.0000	13,980.6937	13,980.6937	0.2680	0.2563	14,063.7740

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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			
Apartments Mid Rise	1.94258e+007	0.0000	0.2908	0.0353	17.7726
Arena	1.06704e+006	0.0000	0.0160	1.9400e-003	0.9762
Fast Food Restaurant with Drive Thru	978480	0.0000	0.0147	1.7800e-003	0.8952
General Office Building	2.18647e+007	0.0000	0.3273	0.0397	20.0039
Government Office Building	1.0286e+006	0.0000	0.0154	1.8700e-003	0.9411
Health Club	963300	0.0000	0.0144	1.7500e-003	0.8813
High School	1.41284e+006	0.0000	0.0212	2.5600e-003	1.2926
High Turnover (Sit Down Restaurant)	4.24008e+006	0.0000	0.0635	7.6900e-003	3.8792
Hotel	5.60791e+006	0.0000	0.1679	0.0204	10.2613
Junior College (2yr)	1.69104e+006	0.0000	0.0253	3.0700e-003	1.5471
Junior High School	2.50406e+006	0.0000	0.0375	4.5400e-003	2.2910
Medical Office Building	578240	0.0000	8.6600e-003	1.0500e-003	0.5290
Regional Shopping Center	2.7489e+006	0.0000	0.0412	4.9900e-003	2.5150
Single Family Housing	3.45316e+007	0.0000	0.5169	0.0627	31.5928
Supermarket	2.58635e+006	0.0000	0.0387	4.6900e-003	2.3662
Total		0.0000	1.5992	0.1939	97.7445

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.94258e+007	0.0000	0.2908	0.0353	17.7726
Arena	1.06704e+006	0.0000	0.0160	1.9400e-003	0.9762
Fast Food Restaurant with Drive Thru	978480	0.0000	0.0147	1.7800e-003	0.8952
General Office Building	2.18647e+007	0.0000	0.3273	0.0397	20.0039
Government Office Building	1.0286e+006	0.0000	0.0154	1.8700e-003	0.9411
Health Club	963300	0.0000	0.0144	1.7500e-003	0.8813
High School	1.41284e+006	0.0000	0.0212	2.5600e-003	1.2926
High Turnover (Sit Down Restaurant)	4.24008e+006	0.0000	0.0635	7.6900e-003	3.8792
Hotel	5.60791e+006	0.0000	0.1679	0.0204	10.2613
Junior College (2yr)	1.69104e+006	0.0000	0.0253	3.0700e-003	1.5471
Junior High School	2.50406e+006	0.0000	0.0375	4.5400e-003	2.2910
Medical Office Building	578240	0.0000	8.6600e-003	1.0500e-003	0.5290
Regional Shopping Center	2.7489e+006	0.0000	0.0412	4.9900e-003	2.5150
Single Family Housing	3.45316e+007	0.0000	0.5169	0.0627	31.5928
Supermarket	2.58635e+006	0.0000	0.0387	4.6900e-003	2.3662
Total		0.0000	1.5992	0.1939	97.7445

6.0 Area Detail

AQMP - Project Features

6.1 Mitigation Measures Area

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Unmitigated	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

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	9.9935					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	66.6416					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8848	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Total	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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	tons/yr										MT/yr					
Architectural Coating	9.9935					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	66.6416					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8848	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237
Total	79.5199	1.1100	96.1893	5.1000e-003		0.5355	0.5355		0.5355	0.5355	0.0000	157.8572	157.8572	0.1507	0.0000	161.6237

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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	371.1318	1.3821	0.8198	649.9760
Unmitigated	371.1318	1.3887	0.8206	650.3796

7.2 Water by Land Use**Unmitigated**

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	325.053 / 204.925	115.0044	0.4308	0.2543	201.5671
Arena	31.0154 / 1.97971	10.9733	0.0402	0.0242	19.1766
Fast Food Restaurant with Drive Thru	7.28481 / 0.464988	2.5774	9.4400e- 003	5.6700e- 003	4.5041
General Office Building	279.575 / 171.353	98.9141	0.3703	0.2187	173.3502
Government Office Building	14.7008 / 9.01018	5.2012	0.0195	0.0115	9.1152
Health Club	3.8443 / 2.35619	1.3601	5.0900e- 003	3.0100e- 003	2.3837
High School	6.60744 / 16.9906	2.3377	9.4300e- 003	5.2500e- 003	4.1384
High Turnover (Sit Down Restaurant)	31.5675 / 2.01495	11.1686	0.0409	0.0246	19.5179
Hotel	20.8008 / 2.31119	7.3593	0.0270	0.0162	12.8641
Junior College (2yr)	5.35275 / 8.37225	1.8938	7.3600e- 003	4.2200e- 003	3.3353
Junior High School	7.27272 / 18.7013	2.5731	0.0104	5.7800e- 003	4.5551
Medical Office Building	5.21999 / 0.994284	1.8468	6.8000e- 003	4.0700e- 003	3.2296
Regional Shopping Center	18.1478 / 11.1228	6.4207	0.0240	0.0142	11.2525
Single Family Housing	284.528 / 179.376	100.6663	0.3771	0.2226	176.4369
Supermarket	8.01243 / 0.247807	2.8348	0.0104	6.2400e- 003	4.9532
Total		371.1318	1.3887	0.8206	650.3796

7.2 Water by Land Use**Mitigated**

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	325.053 / 163.94	115.0044	0.4287	0.2541	201.4359
Arena	31.0154 / 1.58377	10.9733	0.0402	0.0242	19.1753
Fast Food Restaurant with Drive Thru	7.28481 / 0.37199	2.5774	9.4300e-003	5.6700e-003	4.5038
General Office Building	279.575 / 137.082	98.9141	0.3685	0.2185	173.2404
Government Office Building	14.7008 / 7.20814	5.2012	0.0194	0.0115	9.1095
Health Club	3.8443 / 1.88495	1.3601	5.0700e-003	3.0000e-003	2.3822
High School	6.60744 / 13.5924	2.3377	9.2500e-003	5.2300e-003	4.1275
High Turnover (Sit Down Restaurant)	31.5675 / 1.61196	11.1686	0.0409	0.0246	19.5166
Hotel	20.8008 / 1.84896	7.3593	0.0270	0.0162	12.8626
Junior College (2yr)	5.35275 / 6.6978	1.8938	7.2700e-003	4.2100e-003	3.3299
Junior High School	7.27272 / 14.961	2.5731	0.0102	5.7600e-003	4.5431
Medical Office Building	5.21999 / 0.795427	1.8468	6.7900e-003	4.0700e-003	3.2290
Regional Shopping Center	18.1478 / 8.89826	6.4207	0.0239	0.0142	11.2454
Single Family Housing	284.528 / 143.501	100.6663	0.3752	0.2224	176.3220
Supermarket	8.01243 / 0.198246	2.8348	0.0104	6.2400e-003	4.9530
Total		371.1318	1.3821	0.8198	649.9760

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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 WasteCategory/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,580.088 2	152.4789	0.0000	6,392.059 4
Unmitigated	2,580.088 2	152.4789	0.0000	6,392.059 4

8.2 Waste by Land UseUnmitigated

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2294.94	465.8521	27.5311	0.0000	1,154.1288
Arena	1.98	0.4019	0.0238	0.0000	0.9958
Fast Food Restaurant with Drive Thru	276.45	56.1169	3.3164	0.0000	139.0271
General Office Building	1462.89	296.9535	17.5495	0.0000	735.6896
Government Office Building	68.82	13.9698	0.8256	0.0000	34.6097
Health Club	370.5	75.2082	4.4447	0.0000	186.3250
High School	273.75	55.5688	3.2840	0.0000	137.6693
High Turnover (Sit Down Restaurant)	1237.6	251.2216	14.8468	0.0000	622.3909
Hotel	448.95	91.1328	5.3858	0.0000	225.7776
Junior College (2yr)	456.25	92.6146	5.4734	0.0000	229.4488
Junior High School	547.5	111.1376	6.5680	0.0000	275.3386
Medical Office Building	449.28	91.1998	5.3898	0.0000	225.9436
Regional Shopping Center	257.25	52.2194	3.0861	0.0000	129.3714
Single Family Housing	4197.6	852.0749	50.3562	0.0000	2,110.9794
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
Total		2,580.0882	152.4788	0.0000	6,392.0593

8.2 Waste by Land Use**Mitigated**

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2294.94	465.8521	27.5311	0.0000	1,154.1288
Arena	1.98	0.4019	0.0238	0.0000	0.9958
Fast Food Restaurant with Drive Thru	276.45	56.1169	3.3164	0.0000	139.0271
General Office Building	1462.89	296.9535	17.5495	0.0000	735.6896
Government Office Building	68.82	13.9698	0.8256	0.0000	34.6097
Health Club	370.5	75.2082	4.4447	0.0000	186.3250
High School	273.75	55.5688	3.2840	0.0000	137.6693
High Turnover (Sit Down Restaurant)	1237.6	251.2216	14.8468	0.0000	622.3909
Hotel	448.95	91.1328	5.3858	0.0000	225.7776
Junior College (2yr)	456.25	92.6146	5.4734	0.0000	229.4488
Junior High School	547.5	111.1376	6.5680	0.0000	275.3386
Medical Office Building	449.28	91.1998	5.3898	0.0000	225.9436
Regional Shopping Center	257.25	52.2194	3.0861	0.0000	129.3714
Single Family Housing	4197.6	852.0749	50.3562	0.0000	2,110.9794
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
Total		2,580.0882	152.4788	0.0000	6,392.0593

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

UWSP - Proposed Project

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

AQMP - Project Features

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

(lb/MWahr)

(lb/MWahr)

(lb/MWahr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Mobile Commute Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	4.91	3.69
tblVehicleTrips	ST_TR	10.71	19.54
tblVehicleTrips	ST_TR	616.12	319.28
tblVehicleTrips	ST_TR	2.21	6.75
tblVehicleTrips	ST_TR	0.00	15.40
tblVehicleTrips	ST_TR	20.87	18.04
tblVehicleTrips	ST_TR	0.58	1.38
tblVehicleTrips	ST_TR	122.40	75.90
tblVehicleTrips	ST_TR	8.19	4.20
tblVehicleTrips	ST_TR	0.42	1.92
tblVehicleTrips	ST_TR	0.00	1.44
tblVehicleTrips	ST_TR	8.57	24.62
tblVehicleTrips	ST_TR	46.12	37.49

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

tblVehicleTrips	ST_TR	9.54	6.40
tblVehicleTrips	ST_TR	177.62	66.32
tblVehicleTrips	SU_TR	4.09	3.69
tblVehicleTrips	SU_TR	10.71	19.54
tblVehicleTrips	SU_TR	472.58	319.28
tblVehicleTrips	SU_TR	0.70	6.75
tblVehicleTrips	SU_TR	0.00	15.40
tblVehicleTrips	SU_TR	26.73	18.04
tblVehicleTrips	SU_TR	0.25	1.38
tblVehicleTrips	SU_TR	142.64	75.90
tblVehicleTrips	SU_TR	5.95	4.20
tblVehicleTrips	SU_TR	0.04	1.92
tblVehicleTrips	SU_TR	0.00	1.44
tblVehicleTrips	SU_TR	1.42	24.62
tblVehicleTrips	SU_TR	21.10	37.49
tblVehicleTrips	SU_TR	8.55	6.40
tblVehicleTrips	SU_TR	166.47	66.32
tblVehicleTrips	WD_TR	5.44	3.69
tblVehicleTrips	WD_TR	10.71	19.54
tblVehicleTrips	WD_TR	470.95	319.28
tblVehicleTrips	WD_TR	9.74	6.75
tblVehicleTrips	WD_TR	22.59	15.40
tblVehicleTrips	WD_TR	32.93	18.04
tblVehicleTrips	WD_TR	2.03	1.38
tblVehicleTrips	WD_TR	112.18	75.90
tblVehicleTrips	WD_TR	8.36	4.20
tblVehicleTrips	WD_TR	1.15	1.92
tblVehicleTrips	WD_TR	2.13	1.44
tblVehicleTrips	WD_TR	34.80	24.62

AQMP - Project Features

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

tblVehicleTrips	WD_TR	37.75	37.49
tblVehicleTrips	WD_TR	9.44	6.40
tblVehicleTrips	WD_TR	106.78	66.32

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1
Maximum	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1
Maximum	2.7201	27.5533	18.7349	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.413 9	3,815.413 9	1.1961	3.1500e- 003	3,846.253 1

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	181.3189	151.3874	1,521.602 2	3.1164	432.7699	1.4208	434.1907	115.2178	1.3288	116.5466		350,437.2 847	350,437.2 847	20.7844	15.1307	355,465.8 392
Total	632.0561	228.2150	2,332.464 6	3.5795	432.7699	11.0531	443.8230	115.2178	10.9611	126.1788	0.0000	436,273.6 032	436,273.6 032	23.7315	16.6788	441,837.1 827

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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	178.7503	147.6522	1,477.462 2	3.0035	416.5167	1.3741	417.8908	110.8906	1.2850	112.1756		337,736.7 849	337,736.7 849	20.1870	14.7245	342,629.3 684
Total	629.4875	224.4798	2,288.324 6	3.4665	416.5167	11.0064	427.5230	110.8906	10.9173	121.8079	0.0000	423,573.1 034	423,573.1 034	23.1341	16.2727	429,000.7 119

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	0.41	1.64	1.89	3.15	3.76	0.42	3.67	3.76	0.40	3.46	0.00	2.91	2.91	2.52	2.44	2.91

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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

AQMP - Project Features

3.1 Mitigation Measures Construction

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive 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	178.7503	147.6522	1,477.462 2	3.0035	416.5167	1.3741	417.8908	110.8906	1.2850	112.1756		337,736.7 849	337,736.7 849	20.1870	14.7245	342,629.3 684
Unmitigated	181.3189	151.3874	1,521.602 2	3.1164	432.7699	1.4208	434.1907	115.2178	1.3288	116.5466		350,437.2 847	350,437.2 847	20.7844	15.1307	355,465.8 392

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	18,409.41	18,409.41	18409.41	47,240,553	45,746,716
Arena	1,406.88	1,406.88	1406.88	1,978,797	1,896,904
Fast Food Restaurant with Drive Thru	7,662.72	7,662.72	7662.72	5,293,366	5,072,665
General Office Building	10,617.75	10,617.75	10617.75	21,926,757	20,953,580
Government Office Building	1,139.60	1,139.60	1139.60	1,638,569	1,554,363
Health Club	1,172.60	1,172.60	1172.60	1,619,497	1,549,660
High School	2,070.00	2,070.00	2070.00	5,391,592	5,111,004
High Turnover (Sit Down Restaurant)	7,893.60	7,893.60	7893.60	7,014,228	6,717,207
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,534,167
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,534,167
Junior College (2yr)	4,800.00	4,800.00	4800.00	8,838,757	8,390,216
Junior High School	4,320.00	4,320.00	4320.00	9,509,003	9,014,679
Medical Office Building	1,024.19	1,024.19	1024.19	1,706,100	1,630,791

AQMP - Project Features

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	9,185.05	9,185.05	9185.05	12,834,316	12,281,553
Single Family Housing	27,948.80	27,948.80	27948.80	71,719,667	69,451,754
Supermarket	4,310.80	4,310.80	4310.80	3,709,662	3,553,347
Total	105,405.40	105,405.40	105,405.40	205,718,801	197,992,772

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663
NaturalGas Unmitigated	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	128706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7016.55	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11645.6	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55938.5	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2631.56	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6334.38	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8243.15	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50464.2	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62370	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14609.9	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1479.36	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3604.52	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4494.79	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185 AQMP - Project Features	1.5481	84,946.06

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Summer

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

	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					
Apartments Mid Rise	128.706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7.01655	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11.6456	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55.9385	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2.63156	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6.33438	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8.24315	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50.4642	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62.37	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14.805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14.6099	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1.47936	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3.60452	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283.063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4.49479	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

6.0 Area Detail

AQMP - Project Features

6.1 Mitigation Measures Area

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Unmitigated	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

UWSP - Proposed Project
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,573.00	1000sqft	36.11	1,573,000.00	0
Government Office Building	74.00	1000sqft	1.70	74,000.00	0
Medical Office Building	41.60	1000sqft	0.96	41,600.00	0
High School	1,500.00	Student	4.57	198,991.47	0
Junior College (2yr)	2,500.00	Student	2.51	208,000.00	0
Junior High School	3,000.00	Student	8.10	352,685.05	0
Arena	72.00	1000sqft	23.14	72,000.00	0
Fast Food Restaurant with Drive Thru	24.00	1000sqft	0.55	24,000.00	0
Health Club	65.00	1000sqft	1.49	65,000.00	0
High Turnover (Sit Down Restaurant)	104.00	1000sqft	2.39	104,000.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Hotel	410.00	Room	13.67	595,320.00	0
Apartments Mid Rise	4,989.00	Dwelling Unit	131.29	4,989,000.00	13321
Single Family Housing	4,367.00	Dwelling Unit	1,417.86	7,860,600.00	11660
Regional Shopping Center	245.00	1000sqft	5.62	245,000.00	0
Supermarket	65.00	1000sqft	1.49	65,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2045
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity	0	CH4 Intensity	0.033	N2O Intensity	0.004

AQMP - Project Features

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

(lb/MWahr)

(lb/MWahr)

(lb/MWahr)

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted to reflect SMUD's RPS projections.

Land Use - All land uses are consistent with the project-specific traffic report.

Construction Phase - construction not modeled.

Vehicle Trips - Trip rates adjusted per the project-specific traffic report from F&P.

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation - Water conservation strategy applied to reflect project compliance with MWELO.

Mobile Commute Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	6,000.00	1.00
tblLandUse	LandUseSquareFeet	109,130.59	208,000.00
tblProjectCharacteristics	CO2IntensityFactor	357.98	0
tblVehicleTrips	ST_TR	4.91	3.69
tblVehicleTrips	ST_TR	10.71	19.54
tblVehicleTrips	ST_TR	616.12	319.28
tblVehicleTrips	ST_TR	2.21	6.75
tblVehicleTrips	ST_TR	0.00	15.40
tblVehicleTrips	ST_TR	20.87	18.04
tblVehicleTrips	ST_TR	0.58	1.38
tblVehicleTrips	ST_TR	122.40	75.90
tblVehicleTrips	ST_TR	8.19	4.20
tblVehicleTrips	ST_TR	0.42	1.92
tblVehicleTrips	ST_TR	0.00	1.44
tblVehicleTrips	ST_TR	8.57	24.62
tblVehicleTrips	ST_TR	46.12	37.49

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

tblVehicleTrips	ST_TR	9.54	6.40
tblVehicleTrips	ST_TR	177.62	66.32
tblVehicleTrips	SU_TR	4.09	3.69
tblVehicleTrips	SU_TR	10.71	19.54
tblVehicleTrips	SU_TR	472.58	319.28
tblVehicleTrips	SU_TR	0.70	6.75
tblVehicleTrips	SU_TR	0.00	15.40
tblVehicleTrips	SU_TR	26.73	18.04
tblVehicleTrips	SU_TR	0.25	1.38
tblVehicleTrips	SU_TR	142.64	75.90
tblVehicleTrips	SU_TR	5.95	4.20
tblVehicleTrips	SU_TR	0.04	1.92
tblVehicleTrips	SU_TR	0.00	1.44
tblVehicleTrips	SU_TR	1.42	24.62
tblVehicleTrips	SU_TR	21.10	37.49
tblVehicleTrips	SU_TR	8.55	6.40
tblVehicleTrips	SU_TR	166.47	66.32
tblVehicleTrips	WD_TR	5.44	3.69
tblVehicleTrips	WD_TR	10.71	19.54
tblVehicleTrips	WD_TR	470.95	319.28
tblVehicleTrips	WD_TR	9.74	6.75
tblVehicleTrips	WD_TR	22.59	15.40
tblVehicleTrips	WD_TR	32.93	18.04
tblVehicleTrips	WD_TR	2.03	1.38
tblVehicleTrips	WD_TR	112.18	75.90
tblVehicleTrips	WD_TR	8.36	4.20
tblVehicleTrips	WD_TR	1.15	1.92
tblVehicleTrips	WD_TR	2.13	1.44
tblVehicleTrips	WD_TR	34.80	24.62

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

tblVehicleTrips	WD_TR	37.75	37.49
tblVehicleTrips	WD_TR	9.44	6.40
tblVehicleTrips	WD_TR	106.78	66.32

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4
Maximum	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4
Maximum	2.7132	27.5599	18.6716	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.262 2	3,801.262 2	1.1966	3.6100e- 003	3,832.252 4

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	134.8725	175.7428	1,555.806 3	2.8464	432.7699	1.4222	434.1921	115.2178	1.3301	116.5478		319,788.3 050	319,788.3 050	22.8469	16.5270	325,284.5 339
Total	585.6097	252.5705	2,366.668 7	3.3095	432.7699	11.0544	443.8243	115.2178	10.9624	126.1801	0.0000	405,624.6 235	405,624.6 235	25.7940	18.0752	411,655.8 774

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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Energy	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.25 64	84,444.25 64	1.6185	1.5481	84,946.06 63
Mobile	132.1843	171.3548	1,516.314 8	2.7438	416.5167	1.3755	417.8921	110.8906	1.2863	112.1769		308,252.7 031	308,252.7 031	22.2422	16.0892	313,603.3 435
Total	582.9216	248.1824	2,327.177 2	3.2068	416.5167	11.0077	427.5244	110.8906	10.9186	121.8092	0.0000	394,089.0 216	394,089.0 216	25.1893	17.6374	399,974.6 870

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	0.46	1.74	1.67	3.10	3.76	0.42	3.67	3.76	0.40	3.46	0.00	2.84	2.84	2.34	2.42	2.84

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	6/1/2023	6/1/2023	5	1	

Acres of Grading (Site Preparation Phase): 1.5**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Rubber Tired Dozers	3	8.00	247	0.40
	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

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	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

AQMP - Project Features

3.1 Mitigation Measures Construction

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.3081	3,687.3081	1.1926		3,717.1219

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive 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	132.1843	171.3548	1,516.3148	2.7438	416.5167	1.3755	417.8921	110.8906	1.2863	112.1769		308,252.7031	308,252.7031	22.2422	16.0892	313,603.3435
Unmitigated	134.8725	175.7428	1,555.8063	2.8464	432.7699	1.4222	434.1921	115.2178	1.3301	116.5478		319,788.3050	319,788.3050	22.8469	16.5270	325,284.5339

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	18,409.41	18,409.41	18409.41	47,240,553	45,746,716
Arena	1,406.88	1,406.88	1406.88	1,978,797	1,896,904
Fast Food Restaurant with Drive Thru	7,662.72	7,662.72	7662.72	5,293,366	5,072,665
General Office Building	10,617.75	10,617.75	10617.75	21,926,757	20,953,580
Government Office Building	1,139.60	1,139.60	1139.60	1,638,569	1,554,363
Health Club	1,172.60	1,172.60	1172.60	1,619,497	1,549,660
High School	2,070.00	2,070.00	2070.00	5,391,592	5,111,004
High Turnover (Sit Down Restaurant)	7,893.60	7,893.60	7893.60	7,014,228	6,717,207
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,534,167
Hotel	1,722.00	1,722.00	1722.00	2,648,969	2,534,167
Junior College (2yr)	4,800.00	4,800.00	4800.00	8,838,757	8,390,216
Junior High School	4,320.00	4,320.00	4320.00	9,509,003	9,014,679
Medical Office Building	1,024.19	1,024.19	1024.19	1,706,100	1,630,791

AQMP - Project Features

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	9,185.05	9,185.05	9185.05	12,834,316	12,281,553
Single Family Housing	27,948.80	27,948.80	27948.80	71,719,667	69,451,754
Supermarket	4,310.80	4,310.80	4310.80	3,709,662	3,553,347
Total	105,405.40	105,405.40	105,405.40	205,718,801	197,992,772

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
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Arena	10.00	5.00	6.50	0.00	81.00	19.00	66	28	6
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	6.50	33.00	62.00	5.00	50	34	16
Health Club	10.00	5.00	6.50	16.90	64.10	19.00	52	39	9
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
High Turnover (Sit Down	10.00	5.00	6.50	8.50	72.50	19.00	37	20	43
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Hotel	10.00	5.00	6.50	19.40	61.60	19.00	58	38	4
Junior College (2yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1
Junior High School	10.00	5.00	6.50	72.80	22.20	5.00	63	25	12
Medical Office Building	10.00	5.00	6.50	29.60	51.40	19.00	60	30	10
Regional Shopping Center	10.00	5.00	6.50	16.30	64.70	19.00	54	35	11
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Arena	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Fast Food Restaurant with Drive Thru	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
General Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

Government Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Health Club	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
High Turnover (Sit Down Restaurant)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Hotel	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior College (2yr)	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Junior High School	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Medical Office Building	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Regional Shopping Center	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Single Family Housing	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110
Supermarket	0.573467	0.055972	0.181394	0.117243	0.017366	0.004967	0.012425	0.009119	0.000617	0.000816	0.023879	0.000623	0.002110

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	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663
NaturalGas Unmitigated	7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0663

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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					
Apartments Mid Rise	128706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7016.55	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11645.6	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55938.5	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2631.56	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6334.38	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8243.15	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50464.2	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62370	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14609.9	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1479.36	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3604.52	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4494.79	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185 AQMP - Project Features	1.5481	84,946.06

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, Winter

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

	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					
Apartments Mid Rise	128.706	1.3880	11.8611	5.0473	0.0757		0.9590	0.9590		0.9590	0.9590		15,141.8442	15,141.8442	0.2902	0.2776	15,231.8246
Arena	7.01655	0.0757	0.6879	0.5778	4.1300e-003		0.0523	0.0523		0.0523	0.0523		825.4762	825.4762	0.0158	0.0151	830.3816
Fast Food Restaurant with Drive Thru	11.6456	0.1256	1.1417	0.9591	6.8500e-003		0.0868	0.0868		0.0868	0.0868		1,370.0693	1,370.0693	0.0263	0.0251	1,378.2109
General Office Building	55.9385	0.6033	5.4842	4.6067	0.0329		0.4168	0.4168		0.4168	0.4168		6,580.9960	6,580.9960	0.1261	0.1207	6,620.1035
Government Office Building	2.63156	0.0284	0.2580	0.2167	1.5500e-003		0.0196	0.0196		0.0196	0.0196		309.5955	309.5955	5.9300e-003	5.6800e-003	311.4353
Health Club	6.33438	0.0683	0.6210	0.5217	3.7300e-003		0.0472	0.0472		0.0472	0.0472		745.2216	745.2216	0.0143	0.0137	749.6501
High School	8.24315	0.0889	0.8082	0.6789	4.8500e-003		0.0614	0.0614		0.0614	0.0614		969.7828	969.7828	0.0186	0.0178	975.5457
High Turnover (Sit Down Restaurant)	50.4642	0.5442	4.9475	4.1559	0.0297		0.3760	0.3760		0.3760	0.3760		5,936.9670	5,936.9670	0.1138	0.1088	5,972.2474
Hotel	62.37	1.3452	12.2294	10.2727	0.0734		0.9294	0.9294		0.9294	0.9294		14,675.2856	14,675.2856	0.2813	0.2691	14,762.4935
Junior College (2yr)	14.805	0.1597	1.4515	1.2192	8.7100e-003		0.1103	0.1103		0.1103	0.1103		1,741.7695	1,741.7695	0.0334	0.0319	1,752.1200
Junior High School	14.6099	0.1576	1.4323	1.2032	8.5900e-003		0.1089	0.1089		0.1089	0.1089		1,718.8068	1,718.8068	0.0329	0.0315	1,729.0208
Medical Office Building	1.47936	0.0160	0.1450	0.1218	8.7000e-004		0.0110	0.0110		0.0110	0.0110		174.0429	174.0429	3.3400e-003	3.1900e-003	175.0771
Regional Shopping Center	3.60452	0.0389	0.3534	0.2968	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.0612	424.0612	8.1300e-003	7.7700e-003	426.5812
Single Family Housing	283.063	3.0526	26.0862	11.1005	0.1665		2.1091	2.1091		2.1091	2.1091		33,301.5385	33,301.5385	0.6383	0.6105	33,499.4329
Supermarket	4.49479	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.7994	528.7994	0.0101	9.6900e-003	531.9418
Total		7.7407	67.9480	41.3484	0.4222		5.3481	5.3481		5.3481	5.3481		84,444.2564	84,444.2564	1.6185	1.5481	84,946.0664

6.0 Area Detail

AQMP - Project Features

6.1 Mitigation Measures Area

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2
Unmitigated	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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	54.7587					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	365.1593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	23.0785	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841		1,392.062 1	1,392.062 1	1.3286		1,425.277 2
Total	442.9965	8.8796	769.5140	0.0408		4.2841	4.2841		4.2841	4.2841	0.0000	1,392.062 1	1,392.062 1	1.3286	0.0000	1,425.277 2

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

UWSP - Proposed Project - Sacramento Metropolitan AQMD Air District, 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

UWSP - Proposed Project**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Sacramento Metropolitan AQMD Air District, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Rubber Tired Dozers	1.03000E-003	1.06900E-002	4.66000E-003	1.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.12536E+000	1.12536E+000	3.60000E-004	0.00000E+000	1.13446E+000
Tractors/Loaders/Backhoes	3.00000E-004	3.07000E-003	4.46000E-003	1.00000E-005	1.50000E-004	1.40000E-004	0.00000E+000	5.47170E-001	5.47170E-001	1.80000E-004	0.00000E+000	5.51600E-001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Rubber Tired Dozers	1.03000E-003	1.06900E-002	4.66000E-003	1.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.12536E+000	1.12536E+000	3.60000E-004	0.00000E+000	1.13446E+000
Tractors/Loaders/Backhoes	3.00000E-004	3.07000E-003	4.46000E-003	1.00000E-005	1.50000E-004	1.40000E-004	0.00000E+000	5.47170E-001	5.47170E-001	1.80000E-004	0.00000E+000	5.51590E-001

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.81291E-005

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction		
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00	
No	Clean Paved Road	% PM Reduction	0.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Site Preparation	Fugitive Dust	0.01	0.01	0.01	0.01	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

UWSP - Proposed Project**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.81	2.51	2.69	3.61	3.29	3.29	0.00	3.61	3.61	2.76	2.68	3.60
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.10	0.06
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.30	0.76		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	5.30		
No	Land Use	Increase Transit Accessibility	0.25	0.00		

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

No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off- Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
Yes	Commute	Implement Trip Reduction Program	5.40	100.00	Voluntary	
No	Commute	Transit Subsidy	0.00	0.00		
No	Commute	Implement Employee Parking "Cash Out"	4.50	0.00		
No	Commute	Workplace Parking Charge	0.00	0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00	0.00	0.00	0.00

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

No	Commute	Market Commute Trip Reduction Option	0.00	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00	0.00	2.00	
No	Commute	Provide Ride Sharing Program	10.00	0.00		
	Commute	Commute Subtotal	0.05			
No	School Trip	Implement School Bus Program	0.00	0.00		
		Total VMT Reduction	0.05			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

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

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy		20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	

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

No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Attachment B

Off-Model Calculations (Natural Gas Prohibition)

ROG and NOx Savings from Removing Natural Gas				
Residential Land Use Types	# DU	Natural Gas Usage (kBTU/year)	ROG Emissions (tons/year)	NOx Emissions (tons/year)
Single Family Housing	4,367	103,318,000	0.5571	2.1647
Apartments Mid Rise	4,989	46,977,600	0.2533	4.7607
Total Reduction			-0.81	-6.93

ROG And NOx Addition from Additional Electricity				
Residential Land Use Types	# DU	Electricity (kWh/yr)	ROG Emissions (tons/year)	NOx Emissions (tons/year)
Single Family Housing	4,367	20,306,550.00	0.00	0.00
Apartments Mid Rise	4,989	11,364,942.00	0.00	0.00
Total Addition			0.00	0.00

Net ROG Reduction	-0.81
Net NOx Reduction	-6.93

Appliance Electricity Demand		
SF Housing	4650.00	Energy Use per DU (kWh/DU/yr)
5+ Unit Apartments	2278.00	Energy Use per DU (kWh/DU/yr)

CalEEMod ROG and NOx Conversion Factors

ROG and NOx emissions are not generated by electricity use. Refer to CalEEMod results Section 5.3, Energy by Land Use. As presented therein, the use of electricity generates GHG but does not generate criteria pollutants.

see Appendix A Table 7 of Ramboll Bridle Gate Analysis (pdf pg 44)

California Commercial End Use Survey, Annual Summary Statistics. Available online

at <http://capabilities.itron.com/CeusWeb/Chart.aspx>

2009. California Energy Commission. California Residential Appliance Saturation Study, Volume 2: Study Results. Accessible online at
[https://webtools.dnvgl.com/RASS2009/Uploads/2009 RASS_ Volume%20FINAL_101310 .pdf](https://webtools.dnvgl.com/RASS2009/Uploads/2009%20RASS_Volume%20FINAL_101310.pdf)