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### **MEMORANDUM**

**DATE:** May 2, 2022

To: Robert Neman, Harvard 826 Property LLC, Manager

FROM: Ronald Brugger, Senior Air Quality Specialist, LSA

Subject: Air Quality and Greenhouse Gas Impact Analysis Memorandum for the Proposed

French Valley Commercial Project (LSA Project No. EGR2101)

### **INTRODUCTION**

This air quality and greenhouse gas (GHG) impact analysis for the proposed French Valley Commercial Project (project) in the community of French Valley in unincorporated Riverside County has been prepared using methods and assumptions recommended in the South Coast Air Quality Management District's (SCAQMD) *CEQA Air Quality Handbook* (SCAQMD 1993). This analysis includes a description of existing regulatory framework, an assessment of project operational air quality emissions, and an assessment of GHG emissions. Measures to reduce or eliminate significant impacts are identified, where appropriate.

## **Project Location**

The project site is located on the southwest corner of Penfield Lane and Benton Road within the Borel Airpark Specific Plan in the community of French Valley in unincorporated Riverside County, California, as shown in Figure 1 - Project Location and Vicinity (all figures are provided in Attachment B).

### **Project Description**

The undeveloped 2.24-acre site would be developed with a 5,215-square-foot (sf) express car wash and approximately 18 customer parking spaces with vacuums, one handicap parking space, and one employee parking space. The project would also include a 729 sf drive-through-only Weinerschnitzel and a 2,535 sf Arby's restaurant with a drive through. Figure 2 shows the project's site plan.

The tentative construction schedule would begin in May 2022 and end in January 2023, a duration of approximately 8 months.

### Sensitive Receptors and Land Uses in the Project Vicinity

Sensitive receptors include residences, schools, hospitals, and similar uses that are sensitive to air quality. The nearest sensitive receptor is a single-family residence located across Penfield Lane, approximately 130 feet east of the proposed project site. The areas adjacent to the project site include the following uses:

- North: Benton Road and the French Valley Village Center shopping mall
- South: Commercial and light industrial uses with undeveloped land farther south
- East: Penfield Lane and a single-family residence beyond
- West: Undeveloped land with commercial and light industrial uses beyond

## Climate/Meteorology

Air quality in the planning area is affected not only by various emissions sources (e.g., mobile and industry) but also by atmospheric conditions (e.g., wind speed, wind direction, temperature, and rainfall). The combination of topography, low mixing height, abundant sunshine, and emissions from the second-largest urban area in the United States gives the South Coast Air Basin (Basin) some of the worst air pollution problems in the nation.

The annual average temperature varies little throughout the Basin, ranging from the low to middle 60s, measured in degrees Fahrenheit (°F). The climatological station closest to the site with the most current available climate data is the Elsinore Monitoring Station (Western Regional Climate Center 2022). The monthly average maximum temperature recorded at this station ranged from 65.4°F in January to 98.1°F in July and August, with an annual average maximum of 80.6°F. The monthly average minimum temperature recorded at this station ranged from 36.4°F in January to 59.8°F in August, with an annual average minimum of 47.2°F. January is typically the coldest month, and July and August are typically the warmest months in this area of the Basin.

The majority of annual rainfall in the Basin occurs between November and March. Summer rainfall is minimal and is generally limited to scattered thundershowers in coastal regions and slightly heavier showers in the eastern portion of the Basin and along the coastal side of the mountains. The Elsinore Monitoring Station recorded precipitation average monthly rainfall from 2.54 inches in February to 0.02 inch in July, with an annual total of 12.01 inches. Patterns in monthly and yearly rainfall totals are unpredictable due to fluctuations in the weather.

The Basin experiences a persistent temperature inversion (increasing temperature with increasing altitude) as a result of the Pacific high. This inversion limits the vertical dispersion of air contaminants, holding them relatively near the ground. As the sun warms the ground and the lower air layer, the temperature of the lower air layer approaches the temperature of the base of the inversion (upper) layer until the inversion layer finally breaks, allowing vertical mixing with the lower layer. This phenomenon is observed in midafternoon to late afternoon on hot summer days, when the smog appears to clear up suddenly. Winter inversions frequently break by midmorning.

The combination of stagnant wind conditions and low inversions produces the greatest pollutant concentrations. On days of no inversion or high wind speeds, ambient air pollutant concentrations are the lowest. During periods of low inversions and low wind speeds, air pollutants generated in urbanized areas are transported predominantly onshore into Riverside and San Bernardino Counties. In the winter, the greatest pollution problems are carbon monoxide and nitrogen oxides  $(NO_X)$  because of extremely low inversions and air stagnation during the night and early morning hours. In the summer, the longer daylight hours and the brighter sunshine combine to cause a reaction between hydrocarbons and  $NO_X$  to form photochemical smog.

#### REGULATORY FRAMEWORK

Air quality and GHG standards and the regulatory framework are discussed below.

### **Federal Regulations/Standards**

Pursuant to the federal Clean Air Act (CAA) of 1970, the United States Environmental Protection Agency (EPA) established the National Ambient Air Quality Standards (NAAQS). The NAAQS were established for six major pollutants, termed "criteria" pollutants: ozone ( $O_3$ ), carbon monoxide ( $O_3$ ), nitrogen dioxide ( $O_2$ ), sulfur dioxide ( $O_2$ ), particulate matter (PM) (both PM less than 10 microns in size [ $O_3$ ] and PM less than 2.5 microns in size [ $O_3$ ], and lead. Criteria pollutants are defined as those pollutants for which the federal and state governments have established Ambient Air Quality Standards, or criteria, for outdoor concentrations to protect public health.

On December 7, 2009, the EPA Administrator signed a final action under the CAA, finding that six GHGs—carbon dioxide ( $CO_2$ ), methane ( $CH_4$ ), nitrous oxide ( $N_2O$ ), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride ( $SF_6$ )—constitute a threat to public health and welfare and that the combined emissions from motor vehicles cause and contribute to global climate change.

In 2012, the EPA and the National Highway Traffic Safety Administration promulgated new rules to set GHG emission and fuel economy standards for new motor vehicles. The rules created requirements for model years 2017–2021 and 2022–2025, which would become more stringent each year, achieving greater GHG reductions over time. On March 31, 2020, the agencies issued the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule that increases the stringency of Corporate Average Fuel Economy Standard and CO<sub>2</sub> emissions standards by 1.5 percent each year through model year 2026.

## **State Agencies, Regulations, and Standards**

In 1967, the State Legislature passed the Mulford-Carrell Act, which combined two Department of Health bureaus (i.e., the Bureau of Air Sanitation and the Motor Vehicle Pollution Control Board) to establish the California Air Resources Board (CARB). Since its formation, CARB has worked with the public, the business sector, and local governments to find solutions to the State's air pollution problems. California adopted the California Clean Air Act (CCAA) in 1988. CARB administers the California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the CCAA. These 10 State air pollutants are the six criteria pollutants designated by the CAA as well as four others: visibility-reducing particulates, hydrogen sulfide (H<sub>2</sub>S), sulfates, and vinyl chloride.

The California Global Warming Solutions Act of 2006, widely known as Assembly Bill (AB) 32, requires CARB to develop and enforce regulations for the reporting and verification of statewide GHG emissions. CARB was directed to set a statewide GHG emissions limit and set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

The heart of the bill is the requirement that statewide GHG emissions be reduced to 1990 levels by 2020. The bill requires CARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG reductions.

In 2016, the Legislature passed and Governor Jerry Brown signed Senate Bill (SB) 32 and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 Executive Order B-30-15. SB 32 builds on AB 32 and keeps California on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an Intergovernmental Panel on Climate Change analysis of the emissions trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million (ppm) of carbon dioxide equivalent (CO<sub>2</sub>e) and reduce the likelihood of catastrophic impacts from climate change. The companion bill to SB 32, AB 197, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions.

In December 2017, CARB adopted "California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Target" (CARB 2017) that describes the actions the State will take to achieve the SB 32 climate goal of reducing GHG emissions at least 40 percent below 1990 levels by 2030. The 2017 Scoping Plan includes input from a range of State agencies and is the result of a 2-year development process, including extensive public and stakeholder outreach, designed to ensure that California's climate and air quality efforts continue to improve public health and drive development of a more sustainable economy. It outlines an approach that cuts across economic sectors to combine GHG reductions with reductions of smog-causing pollutants, while also safeguarding public health and economic goals. The 2017 Scoping Plan reflects the direction from the Legislature on the Cap-and-Trade Program, as described in AB 398, the need to extend key existing emissions reductions programs, and acknowledges the parallel actions required under AB 617 to strengthen monitoring and reduce air pollution at the community level.

The actions identified in the 2017 Scoping Plan can reduce overall GHG emissions in California and deliver strong policy signals that will continue to drive investment and certainty in a low-carbon economy. The 2017 Scoping Plan builds upon the successful framework established by the original Scoping Plan and the 2014 Scoping Plan, while also identifying new, technologically feasible and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities.

Although the 2017 Scoping Plan does not impose any specific mandates or policies that specifically apply to individual development projects such as the proposed project, the Scoping Plan encourages local municipalities to update building codes and establish sustainable development practices for accommodating future growth. Key policies that involve the residential and commercial building sectors that are indirectly applicable to the proposed project include the implementation of SB 275 (promoting infill development and high density housing in high quality transit areas), implementing green building practices (i.e., the California Green Building Standards Code), energy efficiency and water conservation policies, and waste diversion efforts.

### Senate Bill 97 and State CEQA Guidelines

In August 2007, the Legislature adopted SB 97, requiring the Office of Planning and Research (OPR) to prepare and transmit new California Environmental Quality Act (CEQA) guidelines for the mitigation of GHG emissions or the effects of GHG emissions to the California Natural Resources Agency. OPR submitted its proposed guidelines to the Secretary for Natural Resources on April 13, 2009, and the *State CEQA Guidelines* amendments were adopted on December 30, 2009, and became effective on March 18, 2010.

The State CEQA Guidelines amendments do not specify a threshold of significance for GHG emissions or prescribe assessment methodologies or specific mitigation measures. Instead, the amendments encourage lead agencies to consider many factors in performing a CEQA analysis but rely on the lead agencies in making their own significance determinations based upon substantial evidence. The State CEQA Guidelines amendments also encourage public agencies to make use of programmatic mitigation plans and programs from which to tier when they perform individual project analyses.

The State CEQA Guidelines amendments require a lead agency to make a good-faith effort based on the extent possible on scientific and factual data to describe, calculate, or estimate the amount of GHG emissions resulting from a project. The State CEQA Guidelines amendments give discretion to the lead agency whether to (1) use a model or methodology to quantify GHG emissions resulting from a project and which model or methodology to use and/or (2) rely on a qualitative analysis or performance-based standards. The California Natural Resources Agency is required to periodically update the guidelines to incorporate new information or criteria established by CARB pursuant to AB 32.

## California Green Building Standards Code

The California Green Building Standards Code, which is Part 11 of the California Code of Regulations, is commonly referred to as the CALGreen Code. The first edition of the CALGreen Code was released in 2008 and contained only voluntary standards. The 2019 CALGreen Code was updated in 2019, became effective on January 1, 2020, and applies to nonresidential and residential developments. The CALGreen Code contains requirements for construction site selection, stormwater control during construction, construction waste reduction, indoor water use reduction, material selection, natural resource conservation, site irrigation conservation, and more. The CALGreen Code provides for design options allowing the designer to determine how best to achieve compliance for a given site or building condition. The CALGreen Code also requires building commissioning, which is a process for the verification that all building systems, such as heating and cooling equipment and lighting systems, function at their maximum efficiency.

### **Regional Air Quality Planning Framework**

The EPA has designated the Southern California Association of Governments (SCAG) as the Metropolitan Planning Organization responsible for ensuring compliance with the requirements of the CAA for the Basin. SCAG is a council of governments for Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura Counties. SCAG is a regional planning agency and a forum for regional issues relating to transportation, the economy and community development, and the environment.

Although SCAG is not an air quality management agency, it is responsible for developing transportation, land use, and energy conservation measures that affect air quality.

On September 3, 2020, the Regional Council of SCAG adopted *Connect SoCal*, also known as the 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy: A Plan for Mobility, Accessibility, Sustainability, and High Quality of Life (2020–2045 RTP/SCS). The 2020–2045 RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. Connect SoCal embodies a collective vision for the region's future and is developed with input from local governments, county transportation commissions, tribal governments, nonprofit organizations, businesses, and local stakeholders within Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura Counties.

## South Coast Air Quality Management District

SCAQMD is the agency principally responsible for comprehensive air pollution control in the Basin. To that end, SCAQMD, a regional agency, works directly with SCAG, county transportation commissions, and local governments, and cooperates actively with State and federal government agencies. SCAQMD develops air quality-related rules and regulations, establishes permitting requirements, inspects emissions sources, and provides regulatory enforcement through such measures as educational programs or fines, when necessary.

### Regional Air Quality Management Plan

SCAQMD and SCAG are responsible for formulating and implementing the regional air quality management plan (AQMP) for the Basin. The main purpose of an AQMP is to bring the area into compliance with federal and State air quality standards. SCAQMD prepares a new AQMP every 3 years, updating the previous plan and a 20-year horizon.

The latest plan is the 2016 AQMP (SCAQMD 2017), which incorporates the 2016 RTP/SCS and emission inventory methodologies for various source categories. The 2016 AQMP includes the integrated strategies and measures needed to meet the NAAQS, implementation of new technology measures, and demonstrations of attainment of the 1-hour and 8-hour O<sub>3</sub> NAAQS as well as the latest 24-hour and annual PM<sub>2.5</sub> standards. Key elements of the 2016 AQMP include:

- Calculation and credit for co-benefits from other planning efforts (e.g., climate, energy, and transportation)
- A strategy with fair-share emission reductions at the federal, State, and local levels
- Investment in strategies and technologies meeting multiple air quality objectives
- Identification of new partnerships and significant funding for incentives to accelerate deployment of zero and near-zero technologies
- Enhanced socioeconomic assessment, including an expanded environmental-justice analysis
- Attainment of the 24-hour PM<sub>2.5</sub> standard in 2019 with no additional measures

- Attainment of the annual PM<sub>2.5</sub> standard by 2025 with implementation of a portion of the O<sub>3</sub> strategy
- Attainment of the 1-hour O₃ standard by 2022 with no reliance on "black box" future technology (CAA Section 182(e)(5) measures)

SCAQMD adopts rules and regulations to implement portions of the AQMP. Several of these rules may apply to project construction or operation. For example, SCAQMD Rule 403 requires implementation of the best-available fugitive dust control measure during active construction periods capable of generating fugitive dust emissions from on-site earthmoving activities, construction/demolition activities, and construction equipment travel on paved and unpaved roads.

Although SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate the air quality issues associated with new development projects within the Basin, such as the proposed project. Instead, SCAQMD published the CEQA Air Quality Handbook (SCAQMD 1993) to assist lead agencies, as well as consultants, project proponents, and other interested parties, in evaluating potential air quality impacts of projects proposed in the Basin. The CEQA Air Quality Handbook provides standards, methodologies, and procedures for conducting air quality analyses in Environmental Impact Reports and was used extensively in the preparation of this analysis. SCAQMD is currently in the process of replacing the CEQA Air Quality Handbook (1993) with the Air Quality Analysis Guidance Handbook (SCAQMD n.d.).

To assist the CEQA practitioner in conducting an air quality analysis in the interim while the replacement *Air Quality Analysis Guidance Handbook* is being prepared, supplemental guidance/information is provided on the SCAQMD website and includes (1) on-road vehicle emission factors, (2) background CO concentrations, (3) localized significance thresholds (LSTs), (4) mitigation measures and control efficiencies, (5) mobile-source toxics analysis, (6) off-road mobile-source emission factors, (7) PM<sub>2.5</sub> significance thresholds and calculation methodology, and (8) updated SCAQMD Air Quality Significance Thresholds. SCAQMD also recommends using approved models to calculate emissions from land use projects, such as CalEEMod. These recommendations were followed in the preparation of this analysis.

The following SCAQMD rules and regulations would apply to the proposed project:

- SCAQMD Rule 403 (SCAQMD 2005) requires projects to incorporate fugitive dust control
  measures; and
- SCAQMD Rule 1113 (SCAQMD 2016) limits the volatile organic compound (VOC) content of architectural coatings.

## **Greenhouse Gas Emissions**

This section describes regulations related to global climate change at the federal, State, and local level.

## **Federal Regulations**

The United States has historically had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the EPA has the authority to regulate CO<sub>2</sub> emissions under the CAA.

While there currently are no adopted federal regulations for the control or reduction of GHG emissions, the EPA commenced several actions in 2009 to implement a regulatory approach to global climate change, including the 2009 EPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the EPA Administrator signed an endangerment finding action in 2009 under the CAA, finding that seven GHGs ( $CO_2$ ,  $CH_4$ ,  $N_2O$ , HFCs,  $NF_3$ , PFCs, and  $SF_6$ ) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards.

### State Regulations

CARB is the lead agency for implementing climate change regulations in the State. Since its formation, CARB has worked with the public, the business sector, and local governments to find solutions to California's air pollution problems. Key efforts by the State are described below.

Assembly Bill 32 (2006), California Global Warming Solutions Act. California's major initiative for reducing GHG emissions is AB 32, passed by the State legislature on August 31, 2006. This effort set a GHG emission reduction target to reduce GHG emissions to 1990 levels by 2020. CARB has established the level of GHG emissions in 1990 at 427 million metric tons (MMT) CO<sub>2</sub>e. The emissions target of 427 MMT requires the reduction of 169 MMT from the State's projected business-as-usual 2020 emissions of 596 MMT. AB 32 requires CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. CARB approved the Scoping Plan on December 11, 2008. It contains the main strategies California will implement to achieve the reduction of approximately 169 MMT of CO<sub>2</sub>e, or approximately 30 percent, from the State's projected 2020 emission level of 596 MMT of CO<sub>2</sub>e under a business-as-usual scenario (this is a reduction of 42 MMT CO<sub>2</sub>e, or almost 10 percent from 2002–2004 average emissions). The Scoping Plan also includes CARB recommended GHG reductions for each emissions sector of the State's GHG inventory. The Scoping Plan calls for the largest reductions in GHG emissions to be achieved by implementing the following measures and standards:

- Improved emissions standards for light-duty vehicles (estimated reduction of 31.7 MMT CO<sub>2</sub>e)
- The Low-Carbon Fuel Standard (15.0 MMT CO<sub>2</sub>e)
- Energy efficiency measures in buildings and appliances and the widespread development of combined heat and power systems (26.3 MMT CO₂e)
- A renewable portfolio standard for electricity production (21.3 MMT CO<sub>2</sub>e)

The Scoping Plan identifies 18 emission reduction measures that address cap-and-trade programs, vehicle gas standards, energy efficiency, low carbon fuel standards, renewable energy, regional transportation-related GHG targets, vehicle efficiency measures, goods movement, solar roof programs, industrial emissions, high-speed rail, green building strategies, recycling, sustainable forests, water, and air. The measures would result in a total reduction of 174 MMT CO<sub>2</sub>e by 2020.

On August 24, 2011, CARB unanimously approved both the new supplemental assessment and reapproved its Scoping Plan, which provides the overall roadmap and rule measures to carry out AB 32. CARB also approved a more robust CEQA equivalent document supporting the supplemental analysis of the cap-and-trade program. The cap-and-trade took effect on January 1, 2012, with an enforceable compliance obligation that began January 1, 2013.

CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The First Update defines CARB climate change priorities until 2020 and sets the groundwork to reach long-term goals set forth in Executive Orders S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan, <sup>1</sup> to reflect the 2030 target set by Executive Order B-30-15 and codified by SB 32.

Senate Bill 375 (2008). Signed into law on October 1, 2008, SB 375 supplements GHG reductions from new vehicle technology and fuel standards with reductions from more efficient land use patterns and improved transportation. Under the law, CARB approved GHG reduction targets in February 2011 for California's 18 federally designated regional planning bodies, known as Metropolitan Planning Organizations (MPOs). CARB may update the targets every 4 years and must update them every 8 years. MPOs, in turn, must demonstrate how their plans, policies, and transportation investments meet the targets set by CARB through Sustainable Community Strategies (SCS). The SCSs are included with the Regional Transportation Plan, a report required by State law. However, if an MPO finds that its SCS will not meet the GHG reduction target, it may prepare an Alternative Planning Strategy (APS). The APS identifies the impediments to achieving the targets.

**Executive Order B-30-15 (2015).** Governor Jerry Brown signed Executive Order B-30-15 on April 29, 2015, which added the immediate target of:

GHG emissions should be reduced to 40 percent below 1990 levels by 2030.

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target, and, therefore, is moving forward with the update process. The midterm target is critical to help frame the suite of policy

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<sup>&</sup>lt;sup>1</sup> California Air Resources Board. 2017. *California's 2017 Climate Change Scoping Plan*. November.

measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

**Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act.** SB 350, signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent.
- Increase energy efficiency in buildings by 50 percent by the year 2030.

The 50 percent renewable energy standard will be implemented by the California Public Utilities Commission (CPUC) for the private utilities and by the California Energy Commission for municipal utilities. Each utility must submit a procurement plan showing it will purchase clean energy to displace other nonrenewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to State energy agencies under existing law. The addition made by this legislation requires State energy agencies to plan for and implement those programs in a manner that achieves the energy efficiency target.

Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197. In the summer of 2016 the Legislature passed, and the Governor signed, SB 32 and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 Executive Order B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an Intergovernmental Panel on Climate Change analysis of the emission trajectory that would stabilize atmospheric GHG concentrations at 450 ppm CO<sub>2</sub>e and reduce the likelihood of catastrophic impacts from climate change.

The companion bill to SB 32, AB 197, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

**Senate Bill 100.** On September 10, 2018, Governor Brown signed SB 100, which raises California's renewable portfolio standard requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. Under the bill, the State cannot increase carbon emissions elsewhere in the Western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

**Executive Order B-55-18.** Executive Order B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." Executive Order B-55-18 directs CARB to work with relevant State agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals,

meaning not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions be offset by equivalent net removals of CO₂e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Title 24, Building Efficiencies Standards, and the California Green Building Standards Code. In November 2008, the California Building Standards Commission established the California Green Building Standards Code (CALGreen) (California Code of Regulations, Title 24, Part 11), which sets performance standards for residential and nonresidential development to reduce environmental impacts and to encourage sustainable construction practices. CALGreen addresses energy efficiency, water conservation, material conservation, planning and design, and overall environmental quality. CALGreen was most recently updated in 2019 to include new mandatory measures for residential and nonresidential uses. The new measures took effect January 1, 2020.

### Regional Regulations

On December 17, 2019, Riverside County adopted its Climate Action Plan (CAP) Update (Riverside County 2019). The 2019 CAP Update refines the County's efforts to meet GHG reduction strategies, specifically for the years 2035 and 2050. The 2019 CAP Update builds upon the GHG reduction strategies in the 2015 Climate Action Plan. The 2019 CAP Update assesses the previous GHG reduction targets identified in the 2015 CAP and proposes new targets that are consistent with the State policies in order to meet the requirements of SB 32. The 2019 CAP Update describes Riverside County's GHG emissions for the year 2017, projects how these emissions will increase into 2020, 2030, and 2050, and includes strategies to reduce emissions to a level consistent with the State of California's emissions reduction targets. These strategies complement Riverside County's General Plan policies and are consistent with Riverside County's vision for a more sustainable community.

### THRESHOLDS OF SIGNIFICANCE

Certain air districts (e.g., SCAQMD) have created guidelines and requirements to conduct air quality analyses. SCAQMD's current guidelines, the *CEQA Air Quality Handbook* (SCAQMD 1993) with associated updates, were followed in this assessment of air quality and GHG emissions impacts for the proposed project.

Based on the State CEQA Guidelines, Appendix G (Public Resources Code Sections 15000–15387), a project would normally be considered to have a significant effect on air quality if the project would violate any CAAQS, contribute substantially to an existing air quality violation, expose sensitive receptors to substantial pollutants concentrations, or conflict with adopted environmental plans and goals of the community in which it is located.

## **Pollutants with Regional Effects**

SCAQMD has established daily emissions thresholds for construction and operation of a proposed project in the Basin. The emissions thresholds were established based on the attainment status of the Basin with regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety (SCAQMD 2017), these emissions thresholds are regarded as conservative and would overstate an individual project's contribution to health risks.

## Regional Emissions Thresholds

Table A lists the CEQA significance thresholds for construction and operational emissions established for the Basin.

**Table A: Regional Thresholds for Construction and Operational Emissions** 

		Pollutant Emissions Thresholds (lbs/day)					
<b>Emissions Source</b>	VOCs	NO <sub>x</sub>	СО	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>x</sub>	
Construction	75	100	550	150	55	150	
Operations	55	55	550	150	55	150	

Source: South Coast Air Quality Management District Air Quality Significance Thresholds (SCAQMD 1993).

CO = carbon monoxide lbs/day = pounds per day NOx = nitrogen oxides

 $PM_{10}$  = particulate matter less than 10 microns in size

PM<sub>2.5</sub> = particulate matter less than 2.5 microns in size SCAQMD = South Coast Air Quality Management District

 $SO_X = sulfur oxides$ 

VOC = volatile organic compounds

Projects in the Basin with construction- or operation-related emissions that exceed any of their respective emission thresholds would be considered significant under SCAQMD guidelines. These thresholds, which SCAQMD developed and which apply throughout the Basin, apply as both project and cumulative thresholds. If a project exceeds these standards, it is considered to have a project-specific and cumulative impact.

#### Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project site are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the Basin, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 ppm
- California State 8-hour CO standard of 9 ppm

#### **Localized Impacts Analysis**

SCAQMD published its *Final Localized Significance Threshold Methodology* in June 2003 and updated it in July 2008 recommending that all air quality analyses include an assessment of both construction and operational impacts on the air quality of nearby sensitive receptors (SCAQMD 2008). LSTs represent the maximum emissions from a project site that are not expected to result in an exceedance of the NAAQS or the CAAQS for CO, NO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub>, as shown in Table A. LSTs are based on the ambient concentrations of that pollutant within the project Source Receptor Area (SRA) and the distance to the nearest sensitive receptor. For this project, the appropriate SRA is identified as the Temecula Valley area (SRA 26). Sensitive receptors include residences, schools, hospitals, and similar uses that are sensitive to adverse air quality. As previously mentioned, the nearest sensitive receptor is a single-family residence approximately 130 feet (40 meters) east of the proposed project site, across Penfield Lane.

SCAQMD provides LST screening tables for 25-, 50-, 100-, 200-, and 500-meter source-receptor distances and for 1-, 2-, and 5-acre sites. As identified, the nearby sensitive receptors are located approximately 130 feet (40 m) from the project site boundary. The proposed project site is 2.24 acres; therefore, the table values were interpolated to provide thresholds for 2.24 acres at 130 feet. Table B shows the emission thresholds that would apply based on the project size and distance to nearby receptors during project construction and operation, respectively.

**Table B: SCAQMD Localized Significance Thresholds** 

Emissions Source Category	P	Pollutant Emissions (pounds per day)				
Emissions Source Category	NO <sub>x</sub>	со	PM <sub>10</sub>	PM <sub>2.5</sub>		
Construction (2.24 acres, 130 feet distance)	270	1,466	16	6		
Operations (2.24 acres, 130 feet distance)	270	1,466	4	2		

Source: Compiled by LSA (April 2022).

Notes: LSTs are based on SRA 26 – Temecula Valley, distance of 130 feet to nearest sensitive receptors. CO = carbon monoxide  $PM_{2.5}$  = particulate matter less than 2.5 microns in size LST = localized significance threshold  $PM_{10}$  = particulate matter less than 10 microns in size

NO<sub>X</sub> = nitrogen oxides SRA = Source Receptor Area

#### **Greenhouse Gas Emissions**

State CEQA Guidelines Section 15064(b) provides that the "determination of whether a project may have a significant effect on the environment calls for careful judgment on the part of the public agency involved, based to the extent possible on scientific and factual data," and further, states that an "ironclad definition of significant effect is not always possible because the significance of an activity may vary with the setting."

Appendix G of the *State CEQA Guidelines* includes significance thresholds for GHG emissions. A project would normally have a significant effect on the environment if it would do either of the following:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment
- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs

As described above, Riverside County adopted its CAP Update on December 17, 2019. Thus, by showing that the project would not exceed the screening GHG emissions level of the CAP the project would not have a significant effect on the environment.

## **AIR QUALITY IMPACT ANALYSIS**

This section describes the impacts of the project on regional and localized air quality emissions.

### **Construction Impact Analysis**

CalEEMod is designed to model construction emissions for land development projects and allows for the input of project-specific information, such as the number of equipment, hours of operations, duration of construction activities, and selection of emission control measures. Construction would require heavy equipment during mass grading, utility installations, building construction, and paving. Construction is planned to start in May 2022 and end by January 2023. Other than the construction dates, CalEEMod defaults were used in the construction analysis.

Table C shows the anticipated peak daily construction emissions. These results are from the CalEEMod output tables listed as "Mitigated Construction," even though the only measures that have been applied to the analysis are the SCAQMD required construction emissions control measures, or standard conditions. CalEEMod outputs are included as Attachment C.

**Table C: Estimated Construction Emissions** 

	Total Regional Pollutant Emissions (pounds per day)					
Construction Phase	voc	NO <sub>X</sub>	со	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Site Preparation	1	16	10	<1	<1	<1
Grading	2	21	10	<1	4	2
Building Construction	2	15	16	<1	<1	<1
Architectural Coating	5	1	2	<1	<1	<1
Paving	1	9	12	<1	<1	<1
Peak Daily Emissions	5	21	16	<1	4	2
SCAQMD Thresholds	75	100	550	150	150	55
Significant Emissions?	No	No	No	No	No	No

Source: Compiled by LSA (April 2022).

CO = carbon monoxide

NO<sub>X</sub> = nitrogen oxides

 $PM_{2.5}$  = particulate matter less than 2.5 microns in size

PM<sub>10</sub> = particulate matter less than 10 microns in size

SCAQMD = South Coast Air Quality Management District

 $SO_X = sulfur oxides$ 

VOC = volatile organic compounds

Construction emissions can vary greatly depending on the level of activity, the specific operations taking place, the equipment being operated, local soils, weather conditions, and other factors. The anticipated peak daily construction emissions shown in Table C indicate the construction emissions from the proposed project would not exceed the corresponding SCAQMD daily emission thresholds for criteria pollutants. Therefore, construction air quality impacts would be less than significant.

## **Fugitive Dust**

Fugitive dust emissions are generally associated with land clearing and exposure of soils to the air and wind, as well as cut-and-fill grading operations. Dust generated during construction varies substantially on a project-by-project basis, depending on the level of activity, the specific operations, and weather conditions at the time of construction.

The construction calculations prepared for this project assumed that dust control measures (watering a minimum of two times daily) would be employed to reduce emissions of fugitive dust during site grading. Furthermore, all construction would need to comply with SCAQMD Rule 403 regarding the emission of fugitive dust. Table C lists total construction emissions (i.e., fugitive dust emissions and construction equipment exhausts) that have incorporated the following Rule 403 measures that would be implemented to significantly reduce PM<sub>10</sub> emissions from construction:

- Water active sites at least twice daily (locations where grading is to occur shall be thoroughly watered prior to earthmoving).
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 2 feet (0.6 meter) of freeboard (vertical space between the top of the load and the top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.

These Rule 403 measures were incorporated into the CalEEMod analysis.

## **Architectural Coatings**

Architectural coatings contain VOCs that are part of the O₃ precursors. Based on the proposed project, it is estimated that application of the architectural coatings for the proposed peak construction day would result in a peak of 5 pounds per day (lbs/day) of VOCs. Therefore, VOC emissions from architectural-coating application would not exceed the SCAQMD VOC threshold of 75 lbs/day.

### **Localized Impacts Analysis**

SCAQMD has issued guidance on applying CalEEMod results to localized impacts analyses. LSTs represent the maximum emissions from a project site that are not expected to result in an exceedance of the NAAQS or the CAAQS for CO,  $NO_2$ ,  $PM_{10}$ , and  $PM_{2.5}$ . Sensitive receptors include residences, schools, hospitals, and similar uses that are sensitive to adverse air quality. The closest is the existing residence across Penfield Lane to the east, which is approximately 130 feet from the project site boundary.

Table D shows that the on-site emissions of the pollutants on the peak day of construction will result in concentrations of pollutants at this nearest residence that are all below the SCAQMD thresholds of significance.

### **Odors from Construction Activities**

Heavy-duty equipment in the project area during construction would emit odors, primarily from the equipment exhaust. However, the construction-produced odors would cease to occur after individual construction is completed. No other sources of objectionable odors have been identified for the proposed project, and no mitigation measures are required.

**Table D: Construction Localized Impacts Analysis** 

Emissions Sources	NO <sub>x</sub>	со	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Emissions (pounds per day)	17	14	4	2
LSTs (pounds per day)	270	1,466	16	6
Significant Emissions?	No	No	No	No

Source: Compiled by LSA (April 2022).

Note: LSTs based on SRA 26 – Temecula Valley, 2.24-acre site, 130 feet to nearest sensitive receptor.

CO = carbon monoxide  $PM_{2.5}$  = particulate matter less than 2.5 microns in size LST = localized significance threshold  $PM_{10}$  = particulate matter less than 10 microns in size

NO<sub>x</sub> = nitrogen oxides SRA = Source Receptor Area

### SCAQMD Rule 402, regarding nuisances, states:

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

The proposed uses are not anticipated to emit any objectionable odors. Therefore, objectionable odors posing a health risk to potential on-site and existing off-site uses would not occur as a result of the proposed project.

### **Naturally Occurring Asbestos**

The proposed project site is in Riverside County, which is among the counties found to have serpentine and ultramafic rock in their soils (California Department of Conservation 2022). However, according to the California Geological Survey, no such rock has been identified in the project vicinity. Therefore, the potential risk for naturally occurring asbestos during project construction is small and less than significant.

### **Construction Emissions Conclusions**

Tables C and D show that daily regional construction emissions would not exceed the daily thresholds of any criteria pollutant emission thresholds established by SCAQMD; thus, during construction, there would be no regional or localized impacts.

### **Operational Impact Analysis**

Operational emissions from area sources associated with the project include the combustion of natural gas for food preparation, heating, and hot water and engine emissions from landscape maintenance equipment. Mobile source emissions are associated with project-related vehicle trip generation. Based on the Traffic Impact Analysis Report prepared for the project (LLG 2022), once operational the project would generate 1,989 average daily trips (ADT). The CalEEMod default vehicle fleet mix was used for the purpose of this analysis. Table E presents the estimated operational emissions for the proposed project.

**Table E: Operational Emissions** 

	Pollutant Emissions (pounds per day)					
Source	voc	NO <sub>x</sub>	со	SO <sub>X</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area Sources	<1	<1	<1	0	0	0
Energy Sources	<1	<1	<1	<1	<1	<1
Mobile Sources	6	7	62	<1	14	4
Total Project Emissions	6	7	63	<1	14	4
SCAQMD Thresholds	55	55	550	150	150	55
Significant?	No	No	No	No	No	No

Source: Compiled by LSA (April 2022).

CO = carbon monoxide NO<sub>x</sub> = nitrogen oxides

PM<sub>2.5</sub> = particulate matter less than 2.5 microns in size

PM<sub>10</sub> = particulate matter less than 10 microns in size

SCAQMD = South Coast Air Quality Management District

 $SO_x = sulfur oxides$ 

VOC = volatile organic compounds

As shown in Table E, criteria pollutant emissions from operational activities associated with the proposed project would be below the SCAQMD thresholds. Therefore, project-related regional operational emissions would be less than significant.

#### **Localized Impacts Analysis**

Table F shows the calculated emissions for the proposed operational activities compared with the appropriate LSTs. By design, the localized impacts analysis only includes on-site sources; however, the CalEEMod outputs do not separate on-site and off-site emissions for mobile sources. For a worst-case scenario assessment, the emissions shown in Table F include all on-site project-related stationary sources and 5 percent of the project-related new mobile sources, which is an estimate of the amount of project-related new vehicle traffic that will occur on site. All off-site emissions are subtracted from the total emissions.

**Table F: Long-Term Operational Localized Impacts Analysis** 

Emissions Sources	NO <sub>X</sub>	со	PM <sub>10</sub>	PM <sub>2.5</sub>
On-Site Emissions	<1	19	<1	<1
LSTs	270	1,466	4	2
Significant Emissions?	No	No	No	No

Source: Compiled by LSA (April 2022).

Note: LSTs based on SRA 26 - Temecula Valley, 2.24 acres, 130-foot distance, on-site traffic would be 5 percent of total mobile source trips.

CO = carbon monoxide  $PM_{2.5}$  = particulate matter less than 2.5 microns in size LST = localized significance threshold PM<sub>10</sub> = particulate matter less than 10 microns in size  $NO_X$  = nitrogen oxides SRA = Source Receptor Area

A total of 5 percent is considered conservative because the average round-trip lengths assumed are 16.6 miles for home-work trips, 8.4 miles for home-shopping trips, and 6.9 miles for other types of trips. It is unlikely that the average on-site distance driven will be even ¼ mile, which is approximately 2.3 percent of the total miles traveled. Considering the total trip length included in the CalEEMod, the 5 percent assumption is conservative.

Table F shows that the operational emission rates would not exceed the LSTs for receptors at 130 feet. Therefore, the proposed operational activity would not result in a locally significant air quality impact.

## **Odors from Operational Activities**

Land uses that are associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The project would be a car wash and fast-food restaurants. The car wash would not produce objectionable odors, and while the restaurants would produce odors, the project would be required to comply with SCAQMD Rule 402 governing nuisances. Therefore, the impacts associated with odors would be less than significant and no mitigation measures are required.

## CO Hot-Spot Analysis

Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the project vicinity. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, CO disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients). Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored at the closest CARB station, the Lake Elsinore Station, show a highest recorded 1-hour concentration of 1.6 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 0.8 ppm (the State standard is 9 ppm) during the past 3 years. The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis.

The project is expected to add approximately 108 vehicle trips per hour during the peak hour to local roads. This low level of traffic would not substantially alter the existing traffic flow. Therefore,

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<sup>&</sup>lt;sup>1</sup> Ambient CO levels from CARB's iADAM: Air Quality Data Statistics, www.arb.ca.gov/adam (accessed April 2022).

the project can be implemented in an existing setting with no significant peak-hour intersection impacts. Because no CO hot spots would occur, there would be no project-related impacts on CO concentrations.

## AIR QUALITY MANAGEMENT PLAN CONSISTENCY

A consistency determination plays an essential role in local-agency project review by linking local planning and unique individual projects to the air quality plans. A consistency determination fulfills the CEQA goal of fully informing local-agency decision-makers of the environmental costs of the project under consideration at a stage early enough to ensure that air quality concerns are addressed. Only new or amended General Plan elements, Specific Plans, and significantly unique projects need to undergo a consistency review due to the air quality plan strategy being based on projections from local General Plans.

The AQMP is based on regional growth projections developed by SCAG. The proposed project is a commercial development that would not house more than 1,000 persons, occupy more than 40 acres of land, or encompass more than 650,000 square feet of floor area. Thus, the proposed project would not be defined as a regionally significant project under CEQA; therefore, it does not meet SCAG's Intergovernmental Review criteria.

Development of a commercial car wash and restaurant project on 2.24 net acres conforms to the intent of the County's General Plan land use designation and zone (Riverside County 2015). Thus, the proposed project, as analyzed, would result in air pollutant emissions that are consistent with the County's plans. The County's General Plan is consistent with the SCAG Regional Comprehensive Plan Guidelines and the SCAQMD AQMP. Pursuant to the methodology provided in Chapter 12 of the 1993 SCAQMD CEQA Air Quality Handbook, consistency with the Basin 2016 AQMP is affirmed when a project would not increase the frequency or severity of an air quality standards violation or cause a new violation, and is consistent with the growth assumptions in the AQMP. Consistency review is presented as follows:

- The project would result in short-term construction and long-term operational pollutant
  emissions that are all less than the CEQA significance emissions thresholds established by
  SCAQMD, as demonstrated above. Therefore, the project would not result in an increase in the
  frequency or severity of an air quality standard violation or cause a new air quality standard
  violation.
- 2. The CEQA Air Quality Handbook (SCAQMD 1993) indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan elements, Specific Plans, and significant projects. Significant projects include airports, electricity-generating facilities, petroleum and gas refineries, designation of oil-drilling districts, water ports, solid-waste disposal sites, and offshore-drilling facilities; therefore, the proposed project is not defined as significant.

Based on the consistency analysis presented above, the proposed project would be consistent with the regional AQMP.

### **GREENHOUSE GAS EMISSIONS IMPACT ANALYSIS**

Construction and operation of the project would result in the emission of GHG emissions as described below.

### **Construction Greenhouse Gas Emissions**

Construction activities produce combustion emissions from various sources, such as site grading, utility engines, on-site heavy-duty construction vehicles, equipment hauling materials to and from the site, asphalt paving, and motor vehicles transporting the construction crew. Exhaust emissions from these construction activities would vary daily as construction activity levels change.

The construction emissions, calculated using CalEEMod using the same methodology as described above for the criteria pollutant emissions, are shown in Table G. Results indicate that project construction would generate approximately 237 MT of CO<sub>2</sub>e. Based on SCAQMD guidance, construction emissions were amortized over 30 years (a typical project lifetime) to be added to the total project operational emissions. Thus, annual construction emissions would be approximately 8 MT of CO<sub>2</sub>e per year. (See the CalEEMod output in Attachment C for details.)

**Table G: Construction GHG Emissions** 

	Total Emissions per Phase (MT)		er Phase	Total Emissions per Phase
Construction Phase	CO <sub>2</sub>	CH <sub>4</sub>	N₂O	(MT CO₂e)
Site Preparation	3	<1	<1	3
Grading	10	<1	<1	10
Building Construction	212	<1	<1	214
Architectural Coating	1	<1	<1	2
Paving	8	<1	<1	8
Total Emissions for	r the Entire Construction Process			237 MT CO₂e
Total Construction En	nissions Am	ortized ove	er 30 Years	8 MT CO₂e

Source: Compiled by LSA (April 2022).

 $CH_4$  = methane MT  $CO_2e$  = metric tons of carbon dioxide equivalent

 $CO_2$  = carbon dioxide  $N_2O$  = nitrous oxide

## **Operational Greenhouse Gas Emissions**

Long-term operation of the proposed project would generate GHG emissions from area and mobile sources and indirect emissions from stationary sources associated with energy consumption. Mobile-source emissions of GHGs would include project-generated vehicle trips. Area-source emissions would be associated with activities such as landscaping and maintenance of proposed land uses, natural gas for heating, and other minor sources. Increases in stationary-source emissions would also occur at off-site utility providers as a result of demand for electricity, natural gas, and water by the proposed uses. Table H shows the GHG emissions associated with the proposed project at opening.

**Table H: Estimated Operational Greenhouse Gas Emissions** 

	Poll	Pollutant Emissions (metric tons per year)				
Source	CO <sub>2</sub>	CH₄	N₂O	CO₂e		
Construction emissions amortized over 30	years			8		
Operational Emissions						
Area Sources	<1	0	0	<1		
Energy Sources	97	<1	<1	97		
Mobile Sources	2,292	<1	<1	2,326		
Waste Sources	12	<1	0	29		
Water Usage	16	<1	<1	21		
Total Project Emissions	2,424	1	<1	2,481		
County CAP GHG Threshold		_		3,000		
Significant Emissions?		_	_	No		

Source: Compiled by LSA (April 2022).

CAP = Climate Action Plan  $N_2O$  = nitrous oxide

 $CH_4$  = methane  $CO_2e$  = carbon dioxide equivalent

GHG = greenhouse gas  $CO_2$  = carbon dioxide

As shown in Table H, the project will result in emissions of 2,481 MT of  $CO_2e$  per year. The emissions level of 2,481 MT  $CO_2e$  per year is less than the County's CAP screening threshold of 3,000 MT  $CO_2e$  per year. As described in the County's CAP, the County has determined that projects producing less than 3,000 MT  $CO_2e$  per year would be considered less than significant and do not need to use the Screening Tables or alternative GHG mitigation analysis to demonstrate the project impacts on GHG emissions. Therefore, project-level and cumulative GHG emissions would be less than significant. (Attachment C includes the model outputs.)

#### STANDARD CONDITIONS

## **Construction**

The project is required to comply with regional rules that assist in reducing short-term air pollutant emissions. SCAQMD Rule 403 requires that fugitive dust be controlled with the best-available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source (SCAQMD 2005). In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. Applicable dust suppression techniques from Rule 403 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM<sub>10</sub> component). Compliance with these rules would reduce impacts on nearby sensitive receptors (SCAQMD Rule 403). As shown in Table C, implementation of Rule 403 measures results in dust emissions below SCAQMD thresholds.

The applicable Rule 403 measures are as follows:

- Apply nontoxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Water active sites at least twice daily (locations where grading is to occur shall be thoroughly watered prior to earthmoving).
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 2 feet (0.6 meter) of freeboard (vertical space between the top of the load and the top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114.
- Pave construction access roads at least 100 feet (30 meters) onto the site from the main road.
- Reduce traffic speeds on all unpaved roads to 15 mph or less.

The applicable California Department of Resources Recycling and Recovery (CalRecycle) Sustainable (Green) Building Program Measures are:

- Recycle/reuse at least 50 percent of the construction material (including, but not limited to, soil, mulch, vegetation, concrete, lumber, metal, and cardboard) (CalRecycle 2019a).
- Use "green building materials" such as those materials that are rapidly renewable or resourceefficient, and recycled and manufactured in an environmentally friendly way, for at least
  10 percent of the project, as specified on the CalRecycle website (CalRecycle 2019b).

### **Operations**

The proposed project is required to comply with the CALGreen Code and Title 24 of the California Code of Regulations established by the California Energy Commission regarding energy conservation and green building standards.

## **CUMULATIVE IMPACTS**

The project would temporarily contribute criteria pollutants to the area during project construction. A number of individual projects in the area may be under construction simultaneously with the proposed project. Depending on construction schedules and actual implementation of projects in the area, generation of fugitive dust and pollutant emissions during construction could result in substantial short-term increases in air pollutants. However, each project would be required to comply with SCAQMD's standard construction measures. The proposed project's short-term construction emissions would not exceed the significance thresholds. Therefore, it would not have a significant short-term cumulative air quality impact.

Similarly, the project's long-term operational emissions would not exceed SCAQMD's criteria pollutant thresholds. Again, all projects would be required to comply with SCAQMD's operational emissions thresholds, which are designed to accomplish regional emissions goals. Therefore, the proposed project would not have a significant long-term cumulative air quality impact.

Lastly, the project would produce GHG emissions at a level less than the County's CAP screening threshold. The proposed project's design would be consistent with the County's General Plan, thus ensuring project consistency with the County and State policies and goals. Therefore, the proposed project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the GHG emissions. Given this consistency, it is concluded that the proposed project's impact to the climate from GHG emissions would not be cumulatively considerable.

#### CONCLUSION

Based on the analysis presented above, construction and operation of the proposed project would not result in the generation of criteria air pollutants or GHGs that would exceed SCAQMD or County thresholds of significance. The proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The project would also not result in objectionable odors affecting a substantial number of people. Therefore, implementation of the proposed project would not result in significant or adverse impacts related to air quality. Project-related impacts would be less than significant, and no mitigation is required.

#### **ATTACHMENTS**

Attachment A: References

Attachment B: Figures

Attachment C: CalEEMod Output

# **ATTACHMENT A**

# **REFERENCES**

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# **ATTACHMENT B**

# **FIGURES**

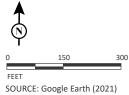


LSA

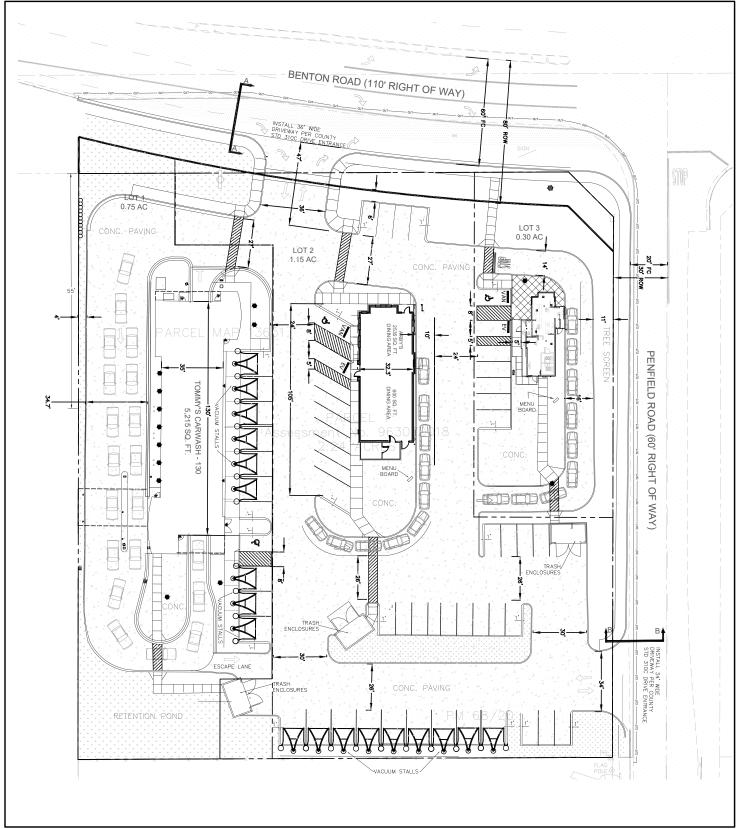
LEGEND



**Project Site Boundary** 

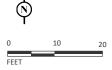


French Valley Commercial Retail Project **Project Location** 



LSA

FIGURE 2



French Valley Commercial Retail Project
Site Plan

SOURCE: Cross Engineering Services

# **ATTACHMENT C**

# **CALEEMOD OUTPUT**

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### French Valley Commercial Project - South Coast AQMD Air District, Annual

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

# French Valley Commercial Project South Coast AQMD Air District, Annual

## 1.0 Project Characteristics

## 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.54	Acre	1.54	67,082.40	0
Fast Food Restaurant with Drive Thru	0.73	1000sqft	0.02	730.00	0
Fast Food Restaurant with Drive Thru	2.54	1000sqft	0.06	2,540.00	0
Automobile Care Center	5.21	1000sqft	0.12	5,210.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

## 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Wienerschnitzel 729 sq ft, Arby's 2,535 sq ft, and Tommy's Car Wash (automotive care center) 5,215 sq ft. Project area 2.24 acres.

Construction Phase - Construction schedule May 2022 to January 2023.

Grading - 1,098 cubic yards of soil to be exported.

Vehicle Trips - From project TIA, March 11, 2022, LLG

Water And Wastewater - Car wash - 13,320 gal/day, restaurants - 4,000 gal/day, assume operates 365 days/year and indoor/outdoor use is 75/25 percent.

Construction Off-road Equipment Mitigation - Dust control measures as required by SCAQMD Rule 403.

Area Mitigation -

Water Mitigation -

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

Architectural Coating - Assume all architectural coatings comply with SCAQMD Rule 1113.

Area Coating - Assume all architectural coatings comply with SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	50	100
tblAreaMitigation	UseLowVOCPaintParkingValue	50	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	155.00
tblConstructionPhase	PhaseEndDate	3/16/2023	12/15/2022
tblConstructionPhase	PhaseEndDate	3/30/2023	12/29/2022
tblConstructionPhase	PhaseEndDate	4/13/2023	1/12/2023
tblConstructionPhase	PhaseStartDate	3/17/2023	12/16/2022
tblConstructionPhase	PhaseStartDate	3/31/2023	12/30/2022
tblGrading	MaterialExported	0.00	1,098.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	ST_TR	23.72	161.80
tblVehicleTrips	ST_TR	616.12	350.00
tblVehicleTrips	SU_TR	11.88	161.80
tblVehicleTrips	SU_TR	472.58	350.00

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

tblVehicleTrips	WD_TR	23.72	161.80
tblVehicleTrips	WD_TR	470.95	350.00
tblWater	IndoorWaterUseRate	490,162.57	3,646,350.00
tblWater	IndoorWaterUseRate	992,555.24	1,095,000.00
tblWater	OutdoorWaterUseRate	300,422.22	1,215,450.00
tblWater	OutdoorWaterUseRate	63,354.59	365,000.00

# 2.0 Emissions Summary

## 2.1 Overall Construction

## **Unmitigated Construction**

	ROG	NOx	СО	SO2	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												МТ	/yr		
2022	0.1732	1.3342	1.3515	2.7200e- 003	0.0680	0.0609	0.1290	0.0225	0.0582	0.0807	0.0000	233.5225	233.5225	0.0381	4.7800e- 003	235.9006
2023	0.0242	5.9500e- 003	9.3300e- 003	2.0000e- 005	3.9000e- 004	3.2000e-004	7.2000e-004	1.0000e- 004	3.2000e-004	4.3000e-004	0.0000	1.4619	1.4619	8.0000e-005	1.0000e- 005	1.4662
Maximum	0.1732	1.3342	1.3515	2.7200e- 003	0.0680	0.0609	0.1290	0.0225	0.0582	0.0807	0.0000	233.5225	233.5225	0.0381	4.7800e- 003	235.9006

## **Mitigated Construction**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year		tons/yr											MT/	/yr		
2022	0.1732	1.3342	1.3515	2.7200e- 003	0.0536	0.0609	0.1145	0.0161	0.0582	0.0743	0.0000	233.5223	233.5223	0.0381	4.7800e- 003	235.9004

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

ı	2023	0.0242	5.9500e-	9.3300e-	2.0000e-			7.2000e-004					1.4619		8.0000e-005		1.4662
			003	003	005	004			004							005	
	Maximum	0.1732	1.3342	1.3515	2.7200e-	0.0536	0.0609	0.1145	0.0161	0.0582	0.0743	0.0000	233.5223	233.5223	0.0381	4.7800e-	235.9004
					003											003	

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	21.12	0.00	11.14	28.44	0.00	7.93	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	5-2-2022	8-1-2022	0.5872	0.5872
2	8-2-2022	11-1-2022	0.5745	0.5745
3	11-2-2022	2-1-2023	0.3627	0.3627
		Highest	0.5872	0.5872

# 2.2 Overall Operational <u>Unmitigated Operational</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category								МТ	/yr							
Area	0.0390	0.0000	1.3000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e- 004
Energy	5.7200e- 003	0.0520	0.0437	3.1000e- 004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	96.6664	96.6664	4.4700e-003	1.4500e-003	97.2094
Mobile	1.0488	1.3121	11.0571	0.0245	2.5509	0.0180	2.5689	0.6807	0.0168	0.6975	0.0000	2,292.2548	2,292.2548	0.1460	0.1011	2,326.0443
Waste						0.0000	0.0000		0.0000	0.0000	11.6862	0.0000	11.6862	0.6906	0.0000	28.9520
Water						0.0000	0.0000		0.0000	0.0000	1.5042	14.0628	15.5670	0.1557	3.7900e-003	20.5891
Total	1.0935	1.3641	11.1009	0.0248	2.5509	0.0220	2.5728	0.6807	0.0207	0.7015	13.1904	2,402.9842	2,416.1746	0.9968	0.1064	2,472.7951

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

## 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													МТ	/yr		
Area	0.0390	0.0000	1.3000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e- 004
Energy	5.7200e- 003	0.0520	0.0437	3.1000e- 004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	96.6664	96.6664	4.4700e-003	1.4500e-003	97.2094
Mobile	1.0488	1.3121	11.0571	0.0245	2.5509	0.0180	2.5689	0.6807	0.0168	0.6975	0.0000	2,292.2548	2,292.2548	0.1460	0.1011	2,326.0443
Waste						0.0000	0.0000		0.0000	0.0000	11.6862	0.0000	11.6862	0.6906	0.0000	28.9520
Water						0.0000	0.0000		0.0000	0.0000	1.5042	13.8728	15.3770	0.1557	3.7900e-003	20.3981
Total	1.0935	1.3641	11.1009	0.0248	2.5509	0.0220	2.5728	0.6807	0.0207	0.7015	13.1904	2,402.7943	2,415.9847	0.9968	0.1064	2,472.6042

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01

# 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	5/2/2022	5/4/2022	5	3	
2	Grading	Grading	5/5/2022	5/12/2022	5	6	
3	· ·	9 -		12/15/2022	5	155	

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

4	Paving	Paving	12/16/2022	12/29/2022	5	10	
5	Architectural Coating	Architectural Coating	12/30/2022	1/12/2023	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 2.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,720; Non-Residential Outdoor: 4,240; Striped Parking Area: 5,332

## OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

## **Trips and VMT**

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## 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	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	137.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

# 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

## 3.2 Site Preparation - 2022

**Unmitigated Construction On-Site** 

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		tons/yr								MT/yr						
Fugitive Dust					2.3900e- 003	0.0000	2.3900e-003	2.6000e- 004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e- 003	0.0235	0.0151	4.0000e- 005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
Total	2.0700e- 003	0.0235	0.0151	4.0000e- 005	2.3900e- 003	8.9000e-004	3.2800e-003	2.6000e- 004	8.2000e-004	1.0800e-003	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582

## **Unmitigated Construction Off-Site**

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

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tor	ns/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	4.0000e- 005	3.0000e- 005	4.3000e- 004	0.0000	1.3000e- 004	0.0000	1.3000e-004	3.0000e- 005	0.0000	4.0000e-005	0.0000	0.1071	0.1071	0.0000	0.0000	0.1081
Total	4.0000e- 005	3.0000e- 005	4.3000e- 004	0.0000	1.3000e- 004	0.0000	1.3000e-004	3.0000e- 005	0.0000	4.0000e-005	0.0000	0.1071	0.1071	0.0000	0.0000	0.1081

# **Mitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	/yr		
Fugitive Dust					9.3000e- 004		9.3000e-004	004		1.0000e-004		0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e- 003	0.0235	0.0151	4.0000e- 005			8.9000e-004			8.2000e-004		3.2321		1.0500e-003		3.2582
Total	2.0700e- 003	0.0235	0.0151	4.0000e- 005	9.3000e- 004	8.9000e-004	1.8200e-003	1.0000e- 004	8.2000e-004	9.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582

# **Mitigated Construction Off-Site**

ROG	NOx	CO	SO2	Fuaitive	Exhaust	PM10 Total	Fuaitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
				5.440		-	50.40.5						_		
				PM10	PM10		PM2.5	PM2.5							

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

Category					toi	ns/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	4.0000e- 005	3.0000e- 005	4.3000e- 004	0.0000	1.3000e- 004	0.0000	1.3000e-004	3.0000e- 005	0.0000	4.0000e-005	0.0000	0.1071	0.1071	0.0000	0.0000	0.1081
Total	4.0000e- 005	3.0000e- 005	4.3000e- 004	0.0000	1.3000e- 004	0.0000	1.3000e-004	3.0000e- 005	0.0000	4.0000e-005	0.0000	0.1071	0.1071	0.0000	0.0000	0.1081

# 3.3 Grading - 2022

# **Unmitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	/yr		
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e- 003	0.0510	0.0277	6.0000e- 005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
Total	4.6200e- 003	0.0510	0.0277	6.0000e- 005	0.0213	2.2300e-003	0.0235	0.0103	2.0500e-003	0.0123	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747

## **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							MT	/yr		

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

Hauling	2.9000e-	0.0113	2.5700e-	4.0000e-		9.0000e-005	1.2700e-003	3.2000e-	9.0000e-005	4.1000e-004	0.0000	4.1259	4.1259	2.2000e-004	6.5000e-	4.3266
	004		003	005	003			004							004	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 004	8.0000e- 005	1.0600e- 003	0.0000	3.3000e- 004	0.0000	3.3000e-004	9.0000e- 005	0.0000	9.0000e-005	0.0000	0.2679	0.2679	1.0000e-005	1.0000e- 005	0.2702
Total	3.9000e- 004	0.0113	3.6300e- 003	4.0000e- 005	1.5100e- 003	9.0000e-005	1.6000e-003	4.1000e- 004	9.0000e-005	5.0000e-004	0.0000	4.3937	4.3937	2.3000e-004	6.6000e- 004	4.5968

# **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	/yr		
Fugitive Dust					8.3100e- 003	0.0000	8.3100e-003	4.0100e- 003	0.0000	4.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e- 003	0.0510	0.0277	6.0000e- 005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
Total	4.6200e- 003	0.0510	0.0277	6.0000e- 005	8.3100e- 003	2.2300e-003	0.0105	4.0100e- 003	2.0500e-003	6.0600e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747

## **Mitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					toi	ns/yr				МТ	/yr					
Hauling	2.9000e-	0.0113	2.5700e-	4.0000e-	1.1800e-	9.0000e-005	1.2700e-003	3.2000e-	9.0000e-005	4.1000e-004	0.0000	4.1259	4.1259	2.2000e-004	6.5000e-	4.3266
	004		003	005	003			004							004	

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Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 004	8.0000e- 005	1.0600e- 003	0.0000	3.3000e- 004		3.3000e-004			9.0000e-005		0.2679		1.0000e-005	1.0000e- 005	0.2702
Total	3.9000e- 004	0.0113	3.6300e- 003	4.0000e- 005	1.5100e- 003	9.0000e-005	1.6000e-003	4.1000e- 004	9.0000e-005	5.0000e-004	0.0000	4.3937	4.3937	2.3000e-004	6.6000e- 004	4.5968

# 3.4 Building Construction - 2022

**Unmitigated Construction On-Site** 

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	ıs/yr							MT	/yr		
Off-Road	0.1438	1.1318	1.1124	1.9400e- 003		0.0544	0.0544		0.0522	0.0522	0.0000	160.9521	160.9521	0.0311	0.0000	161.7284
Total	0.1438	1.1318	1.1124	1.9400e- 003		0.0544	0.0544		0.0522	0.0522	0.0000	160.9521	160.9521	0.0311	0.0000	161.7284

## **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	/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	2.2400e- 003	0.0606	0.0201	2.4000e- 004	7.8200e- 003		8.4200e-003	2.2600e- 003				23.1408	23.1408	7.7000e-004	3.3600e- 003	24.1608
Worker		8.4100e- 003	0.1100	3.0000e- 004		2.1000e-004	0.0342	003	1.9000e-004	9.2200e-003	0.0000			7.6000e-004	004	27.9179

## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Г	Total	0.0127	0.0690	0.1301	5.4000e-	0.0418	8.1000e-004	0.0426	0.0113	7.7000e-004	0.0121	0.0000	50.8187	50.8187	1.5300e-003	4.1000e-	52.0787
					004											003	ı
																	1

## **Mitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tor	ns/yr							MT	/yr		
Off-Road	0.1438	1.1318	1.1124	1.9400e- 003		0.0544	0.0544		0.0522	0.0522	0.0000	160.9519	160.9519	0.0311	0.0000	161.7282
Total	0.1438	1.1318	1.1124	1.9400e- 003		0.0544	0.0544		0.0522	0.0522	0.0000	160.9519	160.9519	0.0311	0.0000	161.7282

# **Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	/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	2.2400e- 003	0.0606	0.0201	2.4000e- 004	7.8200e- 003	6.0000e-004	8.4200e-003	2.2600e- 003	5.8000e-004	2.8300e-003	0.0000	23.1408	23.1408	7.7000e-004	3.3600e- 003	24.1608
Worker	0.0104	8.4100e- 003	0.1100	3.0000e- 004	0.0340	2.1000e-004	0.0342	9.0300e- 003	1.9000e-004	9.2200e-003	0.0000	27.6778	27.6778	7.6000e-004	7.4000e- 004	27.9179
Total	0.0127	0.0690	0.1301	5.4000e- 004	0.0418	8.1000e-004	0.0426	0.0113	7.7000e-004	0.0121	0.0000	50.8187	50.8187	1.5300e-003	4.1000e- 003	52.0787

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## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

3.5 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	<sup>−</sup> /уг		
Off-Road	4.7100e- 003	0.0467	0.0585	9.0000e- 005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	2.0200e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.7300e- 003	0.0467	0.0585	9.0000e- 005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165

## **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	-/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	2.5000e- 004	2.0000e- 004	2.6600e- 003	1.0000e- 005	8.2000e- 004	1.0000e-005	8.3000e-004	2.2000e- 004	0.0000	2.2000e-004	0.0000	0.6696	0.6696	2.0000e-005	2.0000e- 005	0.6754
Total	2.5000e- 004	2.0000e- 004	2.6600e- 003	1.0000e- 005	8.2000e- 004	1.0000e-005	8.3000e-004	2.2000e- 004	0.0000	2.2000e-004	0.0000	0.6696	0.6696	2.0000e-005	2.0000e- 005	0.6754

# **Mitigated Construction On-Site**

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## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	/уг		
Off-Road	4.7100e- 003	0.0467	0.0585	9.0000e- 005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	2.0200e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.7300e- 003	0.0467	0.0585	9.0000e- 005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165

# **Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	/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	2.5000e- 004	2.0000e- 004	2.6600e- 003	1.0000e- 005	8.2000e- 004	1.0000e-005	8.3000e-004	2.2000e- 004	0.0000	2.2000e-004	0.0000	0.6696	0.6696	2.0000e-005	2.0000e- 005	0.6754
Total	2.5000e- 004	2.0000e- 004	2.6600e- 003	1.0000e- 005	8.2000e- 004	1.0000e-005	8.3000e-004	2.2000e- 004	0.0000	2.2000e-004	0.0000	0.6696	0.6696	2.0000e-005	2.0000e- 005	0.6754

3.6 Architectural Coating - 2022 Unmitigated Construction On-Site

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# French Valley Commercial Project - South Coast AQMD Air District, Annual

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

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					toi	ns/yr							МТ	/yr		
Archit. Coating	2.5800e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e- 004	7.0000e- 004	9.1000e- 004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	2.6800e- 003	7.0000e- 004	9.1000e- 004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

# **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					toi	ns/yr							MT.	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 005	1.0000e- 005	1.4000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e-005	1.0000e- 005	0.0000	1.0000e-005	0.0000	0.0357	0.0357	0.0000	0.0000	0.0360
Total	1.0000e- 005	1.0000e- 005	1.4000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e-005	1.0000e- 005	0.0000	1.0000e-005	0.0000	0.0357	0.0357	0.0000	0.0000	0.0360

# **Mitigated Construction On-Site**

PM10 PM10 PM2.5 PM2.5 PM2.5	ROG NOx CO SO2 Fugitive Exhaust PM10 Total Fugitive Exhaust PM2.5 Total Bio- CO2 NBio- CO2 CH4 PM10 PM10 PM2.5 PM2.5	N2O CO2e
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# French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Category					tons/y	yr						MT	/yr		
Archit. Coating	2.5800e- 003					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e- 004	7.0000e- 004	9.1000e- 004	0.0000	4.0	0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	2.6800e- 003	7.0000e- 004	9.1000e- 004	0.0000	4.0	0000e-005	4.0000e-005	4.0000e-005	4.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

# **Mitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					toı	ns/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e- 005	1.0000e- 005	1.4000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e-005	1.0000e- 005	0.0000	1.0000e-005	0.0000	0.0357	0.0357	0.0000	0.0000	0.0360
Total	1.0000e- 005	1.0000e- 005	1.4000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e-005	1.0000e- 005	0.0000	1.0000e-005	0.0000	0.0357	0.0357	0.0000	0.0000	0.0360

# 3.6 Architectural Coating - 2023 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					toi	ns/yr							MT	/yr		

## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Archit. Coating	0.0233				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6000e- 004	5.8600e- 003	8.1500e- 003	1.0000e- 005	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	0.0000	1.1490	1.1490	7.0000e-005	0.0000	1.1507
Total	0.0241	5.8600e- 003	8.1500e- 003	1.0000e- 005	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	0.0000	1.1490	1.1490	7.0000e-005	0.0000	1.1507

## **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					toı	ns/yr							МТ	/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	1.1000e- 004	9.0000e- 005	1.1800e- 003	0.0000	3.9000e- 004	0.0000	4.0000e-004	1.0000e- 004	0.0000	1.1000e-004	0.0000	0.3130	0.3130	1.0000e-005	1.0000e- 005	0.3155
Total	1.1000e- 004	9.0000e- 005	1.1800e- 003	0.0000	3.9000e- 004	0.0000	4.0000e-004	1.0000e- 004	0.0000	1.1000e-004	0.0000	0.3130	0.3130	1.0000e-005	1.0000e- 005	0.3155

# **Mitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					toi	ns/yr							MT	/yr		
Archit. Coating	0.0233					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Off-Road	8.6000e- 004	5.8600e- 003	8.1500e- 003	1.0000e- 005		3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004		1.1490		7.0000e-005		1.1507
Total	0.0241	5.8600e- 003	8.1500e- 003	1.0000e- 005	;	3.2000e-004	3.2000e-004	3.2000e-004	3.2000e-004	0.0000	1.1490	1.1490	7.0000e-005	0.0000	1.1507

# **Mitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tor	ns/yr							МТ	/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	1.1000e- 004	9.0000e- 005	1.1800e- 003	0.0000	3.9000e- 004	0.0000	4.0000e-004	1.0000e- 004	0.0000	1.1000e-004	0.0000	0.3130	0.3130	1.0000e-005	1.0000e- 005	0.3155
Total	1.1000e- 004	9.0000e- 005	1.1800e- 003	0.0000	3.9000e- 004	0.0000	4.0000e-004	1.0000e- 004	0.0000	1.1000e-004	0.0000	0.3130	0.3130	1.0000e-005	1.0000e- 005	0.3155

# 4.0 Operational Detail - Mobile

# **4.1 Mitigation Measures Mobile**

PM10 PM10 PM2.5 PM2.5 PM2.5
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## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Category					to	ns/yr							МТ	/yr		
Mitigated	1.0488	1.3121	11.0571	0.0245	2.5509	0.0180	2.5689	0.6807	0.0168	0.6975	0.0000	2,292.2548	2,292.2548	0.1460	0.1011	2,326.0443
I be a set the set of	1.0488	1.3121	11.0571	0.0245	2.5509	0.0180	2.5689	0.6807	0.0168	0.6975	0.0000	2,292.2548	2,292.2548	0.1460	0.1011	2,326.0443

# **4.2 Trip Summary Information**

	Ave	erage Daily Trip Ra	te	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	842.98	842.98	842.98	3,320,359	3,320,359
Fast Food Restaurant with Drive Thru	255.50	255.50	255.50	771,489	771,489
Fast Food Restaurant with Drive Thru	889.00	889.00	889.00	2,684,358	2,684,358
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,987.48	1,987.48	1,987.48	6,776,206	6,776,206

# 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	100	0	0
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant with Drive	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Non-Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791

# 5.0 Energy Detail

## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Historical Energy Use: N

# **5.1 Mitigation Measures Energy**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					to	ns/yr							МТ	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	40.0988	40.0988	3.3800e-003	4.1000e-004	40.3056
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	40.0988	40.0988	3.3800e-003	4.1000e-004	40.3056
NaturalGas Mitigated	5.7200e- 003	0.0520	0.0437	3.1000e- 004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5676	56.5676	1.0800e-003	1.0400e-003	56.9038
NaturalGas Unmitigated	5.7200e- 003	0.0520	0.0437	3.1000e- 004		3.9500e-003	3.9500e-003		3.9500e-003	3.9500e-003	0.0000	56.5676	56.5676	1.0800e-003	1.0400e-003	56.9038

# **5.2 Energy by Land Use - NaturalGas Unmitigated**

	NaturalGas Use	ROG	NOx	СО	SO2	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					to	ns/yr							МТ	/yr		
Automobile Care Center	168439	9.1000e- 004	8.2600e- 003	6.9400e- 003	5.0000e- 005		6.3000e-004	6.3000e- 004		6.3000e- 004	6.3000e-004	0.0000	8.9886	8.9886	1.7000e-004	1.6000e- 004	9.0420
Fast Food Restaurant with	199042	1.0700e- 003	9.7600e- 003	8.2000e- 003	6.0000e- 005		7.4000e-004	7.4000e- 004		7.4000e- 004	7.4000e-004	0.0000	10.6216	10.6216	2.0000e-004	1.9000e- 004	10.6848
Fast Food Restaurant with	692556	3.7300e- 003	0.0340	0.0285	2.0000e- 004		2.5800e-003	2.5800e- 003		2.5800e- 003	2.5800e-003	0.0000	36.9575	36.9575	7.1000e-004	6.8000e- 004	37.1771
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.7100e- 003	0.0520	0.0437	3.1000e- 004	3.9500e-003	3.9500e- 003	3.9500e- 003	3.9500e-003	0.0000	56.5676	56.5676	1.0800e-003	1.0300e- 003	56.9038

# **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					to	ns/yr							МТ	-/yr		
Automobile Care	168439	9.1000e-	8.2600e-	6.9400e-	5.0000e-		6.3000e-004				6.3000e-004	0.0000	8.9886	8.9886	1.7000e-004		9.0420
Center		004	003	003	005		<b>:</b>	004		004	<b>.</b>		:		1	004	<u> </u>
Fast Food	199042	1.0700e-	9.7600e-	8.2000e-	6.0000e-		7.4000e-004			=	7.4000e-004	0.0000	10.6216	10.6216	2.0000e-004		10.6848
Restaurant with		003	003	003	005			004		004						004	
Fast Food	692556	3.7300e-	0.0340	0.0285	2.0000e-		2.5800e-003			2.5800e-	2.5800e-003	0.0000	36.9575	36.9575	7.1000e-004		37.1771
Restaurant with		003			004			003		003			1			004	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.7100e- 003	0.0520	0.0437	3.1000e- 004		3.9500e-003	3.9500e- 003		3.9500e- 003	3.9500e-003	0.0000	56.5676	56.5676	1.0800e-003	1.0300e- 003	56.9038

# 5.3 Energy by Land Use - Electricity <u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		M٦	/yr	

# French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Total		40.0988	3.3800e- 003	4.0000e- 004	40.3056
Parking Lot	23478.8	4.1639	3.5000e- 004	4.0000e- 005	4.1854
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with	33696.8	5.9760	5.0000e- 004	6.0000e- 005	6.0068
Fast Food Restaurant with	117246	20.7931	1.7600e- 003	2.1000e- 004	20.9004
Automobile Care Center	51683.2	9.1658	7.7000e- 004	9.0000e- 005	9.2131

## **Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	Γ/yr	
Automobile Care Center	51683.2	9.1658	7.7000e- 004	9.0000e- 005	9.2131
Fast Food Restaurant with	117246	20.7931	1.7600e- 003	2.1000e- 004	20.9004
Fast Food Restaurant with	33696.8	5.9760	5.0000e- 004	6.0000e- 005	6.0068
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	23478.8	4.1639	3.5000e- 004	4.0000e- 005	4.1854
Total		40.0988	3.3800e- 003	4.0000e- 004	40.3056

# 6.0 Area Detail

# **6.1 Mitigation Measures Area**

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# French Valley Commercial Project - South Coast 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					to	ns/yr							МТ	/yr		
Mitigated	0.0390		1.3000e- 004			0.0000	0.0000		0.0000	0.0000		2.6000e-004			0.0000	2.8000e- 004
Unmitigated	0.0390	0.0000	1.3000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000		2.6000e-004			0.0000	2.8000e- 004

# 6.2 Area by SubCategory Unmitigated

	ROG	NOx	СО	SO2	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					to	ns/yr							MT	/yr		
Architectural Coating	2.5800e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e- 005	0.0000	1.3000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e- 004
Total	0.0390	0.0000	1.3000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e- 004

## **Mitigated**

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

	ROG	NOx	СО	SO2	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					to	ns/yr							MT	/yr		
Architectural Coating	2.5800e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0364					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e- 005	0.0000	1.3000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e- 004
Total	0.0390	0.0000	1.3000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e- 004

## 7.0 Water Detail

# 7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category		M٦	Г/уг	
Mitigated	15.3770	0.1557	3.7900e- 003	20.3981
Unmitigated	15.5670	0.1557	3.7900e- 003	20.5891

# 7.2 Water by Land Use

## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

## **Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	√yr	
Automobile Care Center	3.64635 / 1.21545	11.9718	0.1197	2.9200e- 003	15.8341
Fast Food Restaurant with	1.095 / 0.365	3.5952	0.0360	8.8000e- 004	4.7550
Other Non-Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
Total		15.5670	0.1557	3.8000e- 003	20.5891

## **Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	-/yr	
Automobile Care Center	3.64635 / 1.14131	11.8258	0.1197	2.9100e- 003	15.6873
Fast Food Restaurant with	1.095 / 0.342735	3.5513	0.0360	8.8000e- 004	4.7109
Other Non-Asphalt Surfaces	0/0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0/0	0.0000	0.0000	0.0000	0.0000
Total		15.3770	0.1557	3.7900e- 003	20.3981

## French Valley Commercial Project - South Coast 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 Waste

# Category/Year

	Total CO2	CH4	N2O	CO2e		
	MT/yr					
Mitigated	11.6862	0.6906	0.0000	28.9520		
Unmitigated	11.6862	0.6906	0.0000	28.9520		

# 8.2 Waste by Land Use Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	/yr	
Automobile Care Center	19.9	4.0395	0.2387	0.0000	10.0077
Fast Food Restaurant with	37.67	7.6467	0.4519	0.0000	18.9443
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

## French Valley Commercial Project - South Coast AQMD Air District, Annual

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

Total	11.6862	0.6906	0.0000	28.9520

#### **Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	19.9	4.0395	0.2387	0.0000	10.0077
Fast Food Restaurant with	37.67	7.6467	0.4519	0.0000	18.9443
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		11.6862	0.6906	0.0000	28.9520

# 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

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

# **User Defined Equipment**

Equipment Type	Number

# 11.0 Vegetation

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#### French Valley Commercial Project - South Coast AQMD Air District, Summer

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

# French Valley Commercial Project South Coast AQMD Air District, Summer

## 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.54	Acre	1.54	67,082.40	0
Fast Food Restaurant with Drive Thru	0.73	1000sqft	0.02	730.00	0
Fast Food Restaurant with Drive Thru	2.54	1000sqft	0.06	2,540.00	0
Automobile Care Center	5.21	1000sqft	0.12	5,210.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

#### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Wienerschnitzel 729 sq ft, Arby's 2,535 sq ft, and Tommy's Car Wash (automotive care center) 5,215 sq ft. Project area 2.24 acres.

Construction Phase - Construction schedule May 2022 to January 2023.

Grading - 1,098 cubic yards of soil to be exported.

Vehicle Trips - From project TIA, March 11, 2022, LLG

Water And Wastewater - Car wash - 13,320 gal/day, restaurants - 4,000 gal/day, assume operates 365 days/year and indoor/outdoor use is 75/25 percent.

Construction Off-road Equipment Mitigation - Dust control measures as required by SCAQMD Rule 403.

Area Mitigation -

Water Mitigation -

Architectural Coating - Assume all architectural coatings comply with SCAQMD Rule 1113.

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French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Area Coating - Assume all architectural coatings comply with SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	50	100
tblAreaMitigation	UseLowVOCPaintParkingValue	50	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	155.00
tblConstructionPhase	PhaseEndDate	3/16/2023	12/15/2022
tblConstructionPhase	PhaseEndDate	3/30/2023	12/29/2022
tblConstructionPhase	PhaseEndDate	4/13/2023	1/12/2023
tblConstructionPhase	PhaseStartDate	3/17/2023	12/16/2022
tblConstructionPhase	PhaseStartDate	3/31/2023	12/30/2022
tblGrading	MaterialExported	0.00	1,098.00
tblVehicleTrips	DV_TP	51.00	0.00
tblVehicleTrips	DV_TP	21.00	0.00
tblVehicleTrips	PB_TP	28.00	0.00
tblVehicleTrips	PB_TP	50.00	0.00
tblVehicleTrips	PR_TP	21.00	100.00
tblVehicleTrips	PR_TP	29.00	100.00
tblVehicleTrips	ST_TR	23.72	161.80
tblVehicleTrips	ST_TR	616.12	350.00
tblVehicleTrips	SU_TR	11.88	161.80
tblVehicleTrips	SU_TR	472.58	350.00
tblVehicleTrips	WD_TR	23.72	161.80

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## French Valley Commercial Project - South Coast 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	470.95	350.00
tblWater	IndoorWaterUseRate	490,162.57	3,646,350.00
tblWater	IndoorWaterUseRate	992,555.24	1,095,000.00
tblWater	OutdoorWaterUseRate	300,422.22	1,215,450.00
tblWater	OutdoorWaterUseRate	63,354.59	365,000.00

# 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/d	day							lb/d	ay		
2022	5.3983	20.5703	16.1353	0.0354	7.6145	0.7727	8.3872	3.5670	0.7120	4.2790	0.0000	3,614.1668	3,614.1668	0.7703	0.2431	3,704.8387
2023	5.3834	1.3201	2.0925	3.7500e- 003	0.0894	0.0713	0.1607	0.0237	0.0713	0.0950	0.0000	361.6080	361.6080	0.0188	1.8100e- 003	362.6158
Maximum	5.3983	20.5703	16.1353	0.0354	7.6145	0.7727	8.3872	3.5670	0.7120	4.2790	0.0000	3,614.1668	3,614.1668	0.7703	0.2431	3,704.8387

## **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/o	day							lb/d	ay		
2022	5.3983	20.5703	16.1353	0.0354	3.2815	0.7727	4.0542	1.4760	0.7120	2.1880		3,614.1668	,			3,704.8387
2023	5.3834	1.3201	2.0925	3.7500e- 003	0.0894	0.0713	0.1607	0.0237	0.0713	0.0950	0.0000	361.6080	361.6080	0.0188	1.8100e- 003	362.6158

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# French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Maximum	5.3983	20.5703	16.1353	0.0354	3.2815	0.7727	4.0542	1.4760	0.7120	2.1880	0.0000	3,614.1668	3,614.1668	0.7703	0.2431	3,704.8387

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.24	0.00	50.69	58.23	0.00	47.81	0.00	0.00	0.00	0.00	0.00	0.00

# 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/c	lay		
Area	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003
Energy	0.0313	0.2847	0.2392	1.7100e- 003		0.0216	0.0216		0.0216	0.0216		341.6720	341.6720	6.5500e- 003	6.2600e- 003	343.7024
Mobile	6.0626	6.6184	62.3588	0.1399	14.2769	0.0992	14.3761	3.8044	0.0922	3.8966		14,405.734 7	14,405.734 7	0.8643	0.5853	14,601.769 4
Total	6.3076	6.9032	62.5990	0.1416	14.2769	0.1208	14.3977	3.8044	0.1139	3.9183		14,747.409 0	14,747.409 0	0.8708	0.5916	14,945.474 3

## **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/d	lay			
Area		1.0000e-005	003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003

#### French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Energy	0.0313	0.2847	0.2392	1.7100e-		0.0216	0.0216		0.0216	0.0216	 341.6720			6.2600e-	343.7024
				003									003	003	
Mobile	6.0626	6.6184	62.3588	0.1399	14.2769	0.0992	14.3761	3.8044	0.0922	3.8966	14,405.734				14,601.769
											7	7		: :	4
Total	6.3076	6.9032	62.5990	0.1416	14.2769	0.1208	14.3977	3.8044	0.1139	3.9183	14,747.409	14,747.409	0.8708	0.5916	14,945.474
											0	0			3

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	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	5/2/2022	5/4/2022	5	3	
2	Grading	Grading	5/5/2022	5/12/2022	5	6	
3	Building Construction	Building Construction	5/13/2022	12/15/2022	5	155	
4	Paving	Paving	12/16/2022	12/29/2022	5	10	
5	Architectural Coating	Architectural Coating	12/30/2022	1/12/2023	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 2.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,720; Non-Residential Outdoor: 4,240; Striped Parking Area: 5,332

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	
Site Preparation	Scrapers	1	8.00	367	
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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## French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

#### **Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	137.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

# **3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

# 3.2 Site Preparation - 2022

**Unmitigated Construction On-Site** 

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# French Valley Commercial Project - South Coast 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/d	day							lb/d	ay		
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682	0	2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	1.5908	0.5952	2.1859	0.1718	0.5476	0.7193		2,375.1569	2,375.1569	0.7682		2,394.3613

# **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0276	0.0194	0.3054	8.1000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		82.3318	82.3318	2.1400e- 003	1.9600e- 003	82.9685
Total	0.0276	0.0194	0.3054	8.1000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		82.3318	82.3318	2.1400e- 003	1.9600e- 003	82.9685

# **Mitigated Construction On-Site**

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# French Valley Commercial Project - South Coast 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/d	day							lb/d	ay		
Fugitive Dust					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	0.6204	0.5952	1.2156	0.0670	0.5476	0.6146	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613

## **Mitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0276	0.0194	0.3054	8.1000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		82.3318	82.3318	2.1400e- 003	1.9600e- 003	82.9685
Total	0.0276	0.0194	0.3054	8.1000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		82.3318	82.3318	2.1400e- 003	1.9600e- 003	82.9685

# 3.3 Grading - 2022

## **Unmitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		

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# French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Fugitive Dust					7.1033	0.0000	7.1033	3.4279	0.0000	3.4279		0.0000		0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	1,995.4825	1,995.4825	0.6454	2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.1033	0.7423	7.8456	3.4279	0.6829	4.1108	1,995.4825	1,995.4825	0.6454	2,011.6169

## **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0965	3.5625	0.8514	0.0138	0.3994	0.0298	0.4292	0.1095	0.0285	0.1380		1,515.7696	1,515.7696	0.0814	0.2406	1,589.5112
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0242	0.3817	1.0100e- 003	0.1118	6.7000e- 004	0.1124	0.0296	6.1000e- 004	0.0303		102.9147	102.9147	2.6700e- 003	2.4500e- 003	103.7106
Total	0.1309	3.5867	1.2331	0.0148	0.5112	0.0305	0.5416	0.1391	0.0291	0.1682		1,618.6844	1,618.6844	0.0841	0.2431	1,693.2218

## **Mitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	ay		
Fugitive Dust					2.7703	0.0000	2.7703	1.3369	0.0000	1.3369			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

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## French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Total	1.5403	16.9836	9.2202	0.0206	2.7703	0.7423	3.5126	1.3369	0.6829	2.0198	0.0000	1,995.4825	1,995.4825	0.6454	2,011.6169

## **Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	lay		
Hauling	0.0965	3.5625	0.8514	0.0138	0.3994	0.0298	0.4292	0.1095	0.0285	0.1380		1,515.7696	1,515.7696	0.0814	0.2406	1,589.5112
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0242	0.3817	1.0100e- 003	0.1118	6.7000e- 004	0.1124	0.0296	6.1000e- 004	0.0303		102.9147	102.9147	2.6700e- 003	2.4500e- 003	103.7106
Total	0.1309	3.5867	1.2331	0.0148	0.5112	0.0305	0.5416	0.1391	0.0291	0.1682		1,618.6844	1,618.6844	0.0841	0.2431	1,693.2218

# 3.4 Building Construction - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

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# French Valley Commercial Project - South Coast AQMD Air District, Summer

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

# **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0292	0.7445	0.2553	3.0600e- 003	0.1025	7.7900e- 003	0.1102	0.0295	7.4500e- 003	0.0369		329.0710	329.0710	0.0110	0.0477	343.5637
Worker	0.1378	0.0969	1.5268	4.0500e- 003	0.4471	2.6700e- 003	0.4498	0.1186	2.4600e- 003	0.1210		411.6589	411.6589	0.0107	9.7900e- 003	414.8423
Total	0.1669	0.8414	1.7821	7.1100e- 003	0.5496	0.0105	0.5600	0.1481	9.9100e- 003	0.1580		740.7298	740.7298	0.0217	0.0575	758.4060

#### **Mitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

#### **Mitigated Construction Off-Site**

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## French Valley Commercial Project - South Coast 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/o	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0292	0.7445	0.2553	3.0600e- 003	0.1025	7.7900e- 003	0.1102	0.0295	7.4500e- 003	0.0369		329.0710	329.0710	0.0110	0.0477	343.5637
Worker	0.1378	0.0969	1.5268	4.0500e- 003	0.4471	2.6700e- 003	0.4498	0.1186	2.4600e- 003	0.1210		411.6589	411.6589	0.0107	9.7900e- 003	414.8423
Total	0.1669	0.8414	1.7821	7.1100e- 003	0.5496	0.0105	0.5600	0.1481	9.9100e- 003	0.1580		740.7298	740.7298	0.0217	0.0575	758.4060

# 3.5 Paving - 2022

# **Unmitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		,	1,709.6892			1,723.2356
Paving	0.4035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3446	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356

# **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	 0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0517	0.0363	0.5726	1.5200e- 003	0.1677	1.0000e- 003	0.1687	0.0445	9.2000e- 004	0.0454	154.3721	154.3721	4.0100e- 003	3.6700e- 003	155.5659
Total	0.0517	0.0363	0.5726	1.5200e- 003	0.1677	1.0000e- 003	0.1687	0.0445	9.2000e- 004	0.0454	154.3721	154.3721	4.0100e- 003	3.6700e- 003	155.5659

## **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.4035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3446	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356

## **Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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## French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Worker	0.0517	0.0363	0.5726	1.5200e-	0.1677	1.0000e-	0.1687	0.0445	9.2000e-	0.0454	 : :	154.3721	154.3721	4.0100e-	3.6700e-	155.5659
		<u> </u>		003		003			004					003	003	
Total	0.0517	0.0363	0.5726	1.5200e-	0.1677	1.0000e-	0.1687	0.0445	9.2000e-	0.0454		154.3721	154.3721	4.0100e-	3.6700e-	155.5659
				003		003			004					003	003	

# 3.6 Architectural Coating - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Archit. Coating	5.1662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481			281.9062
Total	5.3707	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

## **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0276	0.0194	0.3054	8.1000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		82.3318	82.3318	2.1400e- 003	1.9600e- 003	82.9685
Total	0.0276	0.0194	0.3054	8.1000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		82.3318	82.3318	2.1400e- 003	1.9600e- 003	82.9685

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# French Valley Commercial Project - South Coast AQMD Air District, Summer

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

## **Mitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Archit. Coating	5.1662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	5.3707	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

## **Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0276	0.0194	0.3054	8.1000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		82.3318	82.3318	2.1400e- 003	1.9600e- 003	82.9685
Total	0.0276	0.0194	0.3054	8.1000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		82.3318	82.3318	2.1400e- 003	1.9600e- 003	82.9685

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### French Valley Commercial Project - South Coast AQMD Air District, Summer

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

#### **Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Archit. Coating	5.1662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	5.3578	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

#### **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0256	0.0172	0.2814	7.8000e- 004	0.0894	5.0000e- 004	0.0899	0.0237	4.6000e- 004	0.0242		80.1599	80.1599	1.9200e- 003	1.8100e- 003	80.7468
Total	0.0256	0.0172	0.2814	7.8000e- 004	0.0894	5.0000e- 004	0.0899	0.0237	4.6000e- 004	0.0242		80.1599	80.1599	1.9200e- 003	1.8100e- 003	80.7468

#### **Mitigated Construction On-Site**

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#### French Valley Commercial Project - South Coast AQMD Air District, Summer

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

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Archit. Coating	5.1662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	5.3578	1.3030	1.8111	2.9700e- 003	-	0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

#### **Mitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0256	0.0172	0.2814	7.8000e- 004	0.0894	5.0000e- 004	0.0899	0.0237	4.6000e- 004	0.0242		80.1599	80.1599	1.9200e- 003	1.8100e- 003	80.7468
Total	0.0256	0.0172	0.2814	7.8000e- 004	0.0894	5.0000e- 004	0.0899	0.0237	4.6000e- 004	0.0242		80.1599	80.1599	1.9200e- 003	1.8100e- 003	80.7468

# 4.0 Operational Detail - Mobile

# **4.1 Mitigation Measures Mobile**

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# French Valley Commercial Project - South Coast 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	Exhaust	PM10 Total	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Mitigated	6.0626	6.6184	62.3588	0.1399	14.2769	0.0992	14.3761	3.8044	0.0922	3.8966		14,405.734	14,405.734	0.8643	0.5853	14,601.769
Unmitigated	6.0626	6.6184	62.3588	0.1399	14.2769	0.0992	14.3761	3.8044	0.0922	3.8966		14,405.734	14,405.734	0.8643	0.5853	14,601.769

# **4.2 Trip Summary Information**

	Ave	erage Daily Trip Ra	te	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	842.98	842.98	842.98	3,320,359	3,320,359
Fast Food Restaurant with Drive Thru	255.50	255.50	255.50	771,489	771,489
Fast Food Restaurant with Drive Thru	889.00	889.00	889.00	2,684,358	2,684,358
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,987.48	1,987.48	1,987.48	6,776,206	6,776,206

# 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	se %
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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Fast Food Restaurant with Drive		8.40	6.90	2.20	78.80	19.00	100	0	0
Fast Food Restaurant with Drive		8.40	6.90	2.20	78.80	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant with Drive	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760										

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#### French Valley Commercial Project - South Coast AQMD Air District, Summer

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

- 200															
	Other Non-Asphalt Surfaces		0.543139	0.060749	0 10/760:	0.130258	0.023830	0.006353	0.011718	0.000127	0.000812	0.000509	0.02/103:	0.000750	0.003791
	Other Non-Asphall Surfaces	=	0.545159	0.000749	0.104700	0.130230	0.023630	0.000333	0.011710	0.009137	0.000012	0.000309	0.024193	0.000730	0.003791
	•	-	-		_	-	-	-	-		-	-	_	-	
		-	-	-	-	-	-	-	-	-	-	-	-	-	

# 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/e	day							lb/d	lay		
NaturalGas Mitigated	0.0313	0.2847	0.2392	1.7100e- 003		0.0216	0.0216		0.0216	0.0216		341.6720	341.6720	6.5500e- 003	6.2600e- 003	343.7024
NaturalGas Unmitigated	0.0313	0.2847	0.2392	1.7100e- 003		0.0216	0.0216		0.0216	0.0216		341.6720	341.6720	6.5500e- 003	6.2600e- 003	343.7024

# 5.2 Energy by Land Use - NaturalGas Unmitigated

	NaturalGa s 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/d	day							lb/d	ay		
Automobile Care Center	461.478	4.9800e- 003	0.0452	0.0380	2.7000e- 004		3.4400e-003	3.4400e- 003		3.4400e- 003	3.4400e-003		54.2915	54.2915	1.0400e- 003	1.0000e- 003	54.6141
Fast Food Restaurant with	1897.41	0.0205	0.1860	0.1563	1.1200e- 003		0.0141	0.0141		0.0141	0.0141		223.2253	223.2253	4.2800e- 003	4.0900e- 003	224.5518
Fast Food Restaurant with		5.8800e- 003	0.0535	0.0449	3.2000e- 004		4.0600e-003	4.0600e- 003		4.0600e- 003	4.0600e-003		64.1553	64.1553	1.2300e- 003	1.1800e- 003	64.5365
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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# French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0313	0.2847	0.2392	1.7100e- 003	0.0216	0.0216	0.0216	0.0216	341.6720	341.6720	6.5500e- 003	6.2700e- 003	343.7024

#### **Mitigated**

	NaturalGa s Use	ROG	NOx	СО	SO2	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/d	ay		
Automobile Care Center	0.461478	4.9800e- 003	0.0452	0.0380	2.7000e- 004		3.4400e-003	3.4400e- 003		3.4400e- 003	3.4400e-003		54.2915	54.2915	1.0400e- 003	1.0000e- 003	54.6141
Fast Food Restaurant with	0.54532	5.8800e- 003	0.0535	0.0449	3.2000e- 004		4.0600e-003	4.0600e- 003		4.0600e- 003	4.0600e-003		64.1553	64.1553	1.2300e- 003	1.1800e- 003	64.5365
Fast Food Restaurant with	1.89741	0.0205	0.1860	0.1563	1.1200e- 003	••••••	0.0141	0.0141		0.0141	0.0141		223.2253	223.2253	4.2800e- 003	4.0900e- 003	224.5518
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	•••••	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	•••••	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0313	0.2847	0.2392	1.7100e- 003		0.0216	0.0216		0.0216	0.0216		341.6720	341.6720	6.5500e- 003	6.2700e- 003	343.7024

# 6.0 Area Detail

# **6.1 Mitigation Measures Area**

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# French Valley Commercial Project - South Coast AQMD Air District, Summer

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

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Mitigated	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003
Unmitigated	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003

# 6.2 Area by SubCategory Unmitigated

	ROG	NOx	СО	SO2	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/o	day							lb/d	lay		
Architectural Coating	0.0142					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e- 004	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003
Total	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003

#### **Mitigated**

	ROG	NOx	СО	SO2	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/o	day							lb/c	lay		
Architectural Coating	0.0142					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

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#### French Valley Commercial Project - South Coast AQMD Air District, Summer

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

Consumer Products	0.1994				0.0000	0.0000	0.0000	0.0000		0.0000		0.0000
Landscaping		1.0000e-005		0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e- 003	2.3000e- 003	1.0000e- 005	2.4500e- 003
Total	0.2136	1.0000e-005	1.0700e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e- 003	2.3000e- 003	1.0000e- 005	2.4500e- 003

#### 7.0 Water Detail

# 7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

#### 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
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# 11.0 Vegetation

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French Valley Commercial Project - South Coast AQMD Air District, Winter

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

# French Valley Commercial Project South Coast AQMD Air District, Winter

#### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.54	Acre	1.54	67,082.40	0
Fast Food Restaurant with Drive Thru	0.73	1000sqft	0.02	730.00	0
Fast Food Restaurant with Drive Thru	2.54	1000sqft	0.06	2,540.00	0
Automobile Care Center	5.21	1000sqft	0.12	5,210.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

#### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (Ib/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Wienerschnitzel 729 sq ft, Arby's 2,535 sq ft, and Tommy's Car Wash (automotive care center) 5,215 sq ft. Project area 2.24 acres.

Construction Phase - Construction schedule May 2022 to January 2023.

Grading - 1,098 cubic yards of soil to be exported.

Vehicle Trips - From project TIA, March 11, 2022, LLG

Water And Wastewater - Car wash - 13,320 gal/day, restaurants - 4,000 gal/day, assume operates 365 days/year and indoor/outdoor use is 75/25 percent.

Construction Off-road Equipment Mitigation - Dust control measures as required by SCAQMD Rule 403.

Area Mitigation -

Water Mitigation -

Architectural Coating - Assume all architectural coatings comply with SCAQMD Rule 1113.

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French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Area Coating - Assume all architectural coatings comply with SCAQMD Rule 1113.

Table Name	Column Name	Default Value	New Value		
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00		
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00		
tblArchitecturalCoating	EF_Parking	100.00	50.00		
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50		
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50		
tblAreaCoating	Area_EF_Parking	100	50		
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	50	100		
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	50	100		
tblAreaMitigation	UseLowVOCPaintParkingValue	50	100		
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15		
tblConstructionPhase	NumDays	220.00	155.00		
tblConstructionPhase	PhaseEndDate	3/16/2023	12/15/2022		
tblConstructionPhase	PhaseEndDate	3/30/2023	12/29/2022		
tblConstructionPhase	PhaseEndDate	4/13/2023	1/12/2023		
tblConstructionPhase	PhaseStartDate	3/17/2023	12/16/2022		
tblConstructionPhase	PhaseStartDate	3/31/2023	12/30/2022		
tblGrading	MaterialExported	0.00	1,098.00		
tblVehicleTrips	DV_TP	51.00	0.00		
tblVehicleTrips	DV_TP	21.00	0.00		
tblVehicleTrips	PB_TP	28.00	0.00		
tblVehicleTrips	PB_TP	50.00	0.00		
tblVehicleTrips	PR_TP	21.00	100.00		
tblVehicleTrips	PR_TP	29.00	100.00		
tblVehicleTrips	ST_TR	23.72	161.80		
tblVehicleTrips	ST_TR	616.12	350.00		
tblVehicleTrips	SU_TR	11.88	161.80		
tblVehicleTrips	SU_TR	472.58	350.00		
tblVehicleTrips	WD_TR	23.72	161.80		

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#### French Valley Commercial Project - South Coast 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	470.95	350.00
tblWater	IndoorWaterUseRate	490,162.57	3,646,350.00
tblWater	IndoorWaterUseRate	992,555.24	1,095,000.00
tblWater	OutdoorWaterUseRate	300,422.22	1,215,450.00
tblWater	OutdoorWaterUseRate	63,354.59	365,000.00

# 2.0 Emissions Summary

# 2.1 Overall Construction (Maximum Daily Emission) Unmitigated Construction

	ROG	NOx	СО	SO2	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/o	day							lb/d	ay		
2022	5.3997	20.7291	15.9979	0.0354	7.6145	0.7728	8.3872	3.5670	0.7121	4.2791	0.0000	3,608.7410	3,608.7410	0.7703	0.2433	3,699.4826
2023	5.3848	1.3218	2.0658	3.7100e- 003	0.0894	0.0713	0.1607	0.0237	0.0713	0.0950	0.0000	356.9560	356.9560	0.0188	1.9200e- 003	357.9971
Maximum	5.3997	20.7291	15.9979	0.0354	7.6145	0.7728	8.3872	3.5670	0.7121	4.2791	0.0000	3,608.7410	3,608.7410	0.7703	0.2433	3,699.4826

#### **Mitigated Construction**

	ROG	NOx	СО	SO2	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/d	ay		
2022	5.3997	20.7291	15.9979	0.0354	3.2815	0.7728	4.0542		0.7121	2.1881		ŕ	3,608.7410			3,699.4826
2023	5.3848	1.3218	2.0658	3.7100e- 003	0.0894	0.0713	0.1607	0.0237	0.0713	0.0950	0.0000	356.9560	356.9560	0.0188	1.9200e- 003	357.9971

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# French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Maximum	5.3997	20.7291	15.9979	0.0354	3.2815	0.7728	4.0542	1.4760	0.7121	2.1881	0.0000	3,608.7410	3,608.7410	0.7703	0.2433	3,699.4826

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.24	0.00	50.69	58.23	0.00	47.80	0.00	0.00	0.00	0.00	0.00	0.00

# 2.2 Overall Operational

# **Unmitigated Operational**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	lay		
Area	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003
Energy	0.0313	0.2847	0.2392	1.7100e- 003		0.0216	0.0216		0.0216	0.0216		341.6720	341.6720	6.5500e- 003	6.2600e- 003	343.7024
Mobile	5.8472	7.1147	60.0221	0.1334	14.2769	0.0992	14.3761	3.8044	0.0923	3.8967		13,733.872 9	13,733.872 9	0.8886	0.6087	13,937.483 5
Total	6.0922	7.3995	60.2623	0.1351	14.2769	0.1208	14.3978	3.8044	0.1139	3.9183		14,075.547 3	14,075.547 3	0.8951	0.6150	14,281.188 4

#### **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/c	lay		
Area	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003

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#### French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Energy	0.0313	0.2847	0.2392	1.7100e-		0.0216	0.0216		0.0216	0.0216	341.6720			6.2600e-	343.7024
				003									003	003	
Mobile	5.8472	7.1147	60.0221	0.1334	14.2769	0.0992	14.3761	3.8044	0.0923	3.8967	13,733.872			0.6087	13,937.483
											9	9			5
Total	6.0922	7.3995	60.2623	0.1351	14.2769	0.1208	14.3978	3.8044	0.1139	3.9183	14,075.547	14,075.547	0.8951	0.6150	14,281.188
											3	3			4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	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	5/2/2022	5/4/2022	5	3	
2	Grading	Grading	5/5/2022	5/12/2022	5	6	
3	Building Construction	Building Construction	5/13/2022	12/15/2022	5	155	
4	Paving	Paving	12/16/2022	12/29/2022	5	10	
5	Architectural Coating	Architectural Coating	12/30/2022	1/12/2023	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 2.04

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,720; Non-Residential Outdoor: 4,240; Striped Parking Area: 5,332

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00		
Site Preparation	Scrapers	1	8.00	367	
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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#### French Valley Commercial Project - South Coast AQMD Air District, Winter

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

<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

#### **Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	137.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	16.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

# 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

# 3.2 Site Preparation - 2022

**Unmitigated Construction On-Site** 

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# French Valley Commercial Project - South Coast 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/d	day							lb/d	ay		
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	1.5908	0.5952	2.1859	0.1718	0.5476	0.7193		2,375.1569	2,375.1569	0.7682		2,394.3613

# **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0212	0.2761	7.6000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		77.5444	77.5444	2.1600e- 003	2.0800e- 003	78.2174
Total	0.0290	0.0212	0.2761	7.6000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		77.5444	77.5444	2.1600e- 003	2.0800e- 003	78.2174

# **Mitigated Construction On-Site**

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# French Valley Commercial Project - South Coast 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/e	day							lb/d	ay		
Fugitive Dust					0.6204	0.0000	0.6204	0.0670	0.0000	0.0670			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	0.6204	0.5952	1.2156	0.0670	0.5476	0.6146	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613

#### **Mitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0212	0.2761	7.6000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		77.5444	77.5444	2.1600e- 003	2.0800e- 003	78.2174
Total	0.0290	0.0212	0.2761	7.6000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		77.5444	77.5444	2.1600e- 003	2.0800e- 003	78.2174

# 3.3 Grading - 2022

#### **Unmitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		

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# French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Fugitive Dust					7.1033	0.0000	7.1033	3.4279	0.0000	3.4279		0.0000		0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	1,995.4825	1,995.4825	0.6454	2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.1033	0.7423	7.8456	3.4279	0.6829	4.1108	1,995.4825	1,995.4825	0.6454	2,011.6169

#### **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0938	3.7190	0.8674	0.0138	0.3994	0.0298	0.4292	0.1095	0.0286	0.1380		1,516.3280	1,516.3280	0.0813	0.2407	1,590.0940
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0362	0.0265	0.3451	9.5000e- 004	0.1118	6.7000e- 004	0.1124	0.0296	6.1000e- 004	0.0303		96.9305	96.9305	2.7000e- 003	2.6000e- 003	97.7717
Total	0.1300	3.7455	1.2124	0.0148	0.5112	0.0305	0.5417	0.1391	0.0292	0.1683		1,613.2585	1,613.2585	0.0840	0.2433	1,687.8657

#### **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	ay		
Fugitive Dust					2.7703	0.0000	2.7703	1.3369	0.0000	1.3369			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

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#### French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Total	1.5403	16.9836	9.2202	0.0206	2.7703	0.7423	3.5126	1.3369	0.6829	2.0198	0.0000	1,995.4825	1,995.4825	0.6454	2,011.6169

### **Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0938	3.7190	0.8674	0.0138	0.3994	0.0298	0.4292	0.1095	0.0286	0.1380		1,516.3280	1,516.3280	0.0813	0.2407	1,590.0940
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0362	0.0265	0.3451	9.5000e- 004	0.1118	6.7000e- 004	0.1124	0.0296	6.1000e- 004	0.0303		96.9305	96.9305	2.7000e- 003	2.6000e- 003	97.7717
Total	0.1300	3.7455	1.2124	0.0148	0.5112	0.0305	0.5417	0.1391	0.0292	0.1683		1,613.2585	1,613.2585	0.0840	0.2433	1,687.8657

# 3.4 Building Construction - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

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# French Valley Commercial Project - South Coast AQMD Air District, Winter

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

# **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0287	0.7770	0.2644	3.0600e- 003	0.1025	7.8100e- 003	0.1103	0.0295	7.4700e- 003	0.0370		329.2357	329.2357	0.0110	0.0478	343.7460
Worker	0.1449	0.1060	1.3802	3.8100e- 003	0.4471	2.6700e- 003	0.4498	0.1186	2.4600e- 003	0.1210		387.7222	387.7222	0.0108	0.0104	391.0869
Total	0.1736	0.8830	1.6447	6.8700e- 003	0.5496	0.0105	0.5600	0.1481	9.9300e- 003	0.1580		716.9579	716.9579	0.0218	0.0582	734.8330

#### **Mitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

#### **Mitigated Construction Off-Site**

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#### French Valley Commercial Project - South Coast 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/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0287	0.7770	0.2644	3.0600e- 003	0.1025	7.8100e- 003	0.1103	0.0295	7.4700e- 003	0.0370		329.2357	329.2357	0.0110	0.0478	343.7460
Worker	0.1449	0.1060	1.3802	3.8100e- 003	0.4471	2.6700e- 003	0.4498	0.1186	2.4600e- 003	0.1210		387.7222	387.7222	0.0108	0.0104	391.0869
Total	0.1736	0.8830	1.6447	6.8700e- 003	0.5496	0.0105	0.5600	0.1481	9.9300e- 003	0.1580		716.9579	716.9579	0.0218	0.0582	734.8330

# 3.5 Paving - 2022

# **Unmitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	ay		
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		,	1,709.6892			1,723.2356
Paving	0.4035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3446	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356

#### **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	lay		

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# French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Hauling C	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor C	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker C	0.0544	0.0398	0.5176	1.4300e- 003	0.1677	1.0000e- 003	0.1687	0.0445	9.2000e- 004	0.0454		145.3958	145.3958	4.0600e- 003	3.8900e- 003	146.6576
Total 0	0.0544	0.0398	0.5176	1.4300e- 003	0.1677	1.0000e- 003	0.1687	0.0445	9.2000e- 004	0.0454		145.3958	145.3958	4.0600e- 003	3.8900e- 003	146.6576

#### **Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	ay		
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.4035					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3446	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356

#### **Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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#### French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Worker	0.0544	0.0398	0.5176	1.4300e-	0.1677	1.0000e-	0.1687	0.0445	9.2000e-	0.0454	1	145.3958	145.3958	4.0600e-	3.8900e-	146.6576
				003		003			004					003	003	
Total	0.0544	0.0398	0.5176	1.4300e-	0.1677	1.0000e-	0.1687	0.0445	9.2000e-	0.0454	1	145.3958	145.3958	4.0600e-	3.8900e-	146.6576
				003		003			004					003	003	

# 3.6 Architectural Coating - 2022 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	ay		
Archit. Coating	5.1662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481			281.9062
Total	5.3707	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

#### **Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0212	0.2761	7.6000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		77.5444	77.5444	2.1600e- 003	2.0800e- 003	78.2174
Total	0.0290	0.0212	0.2761	7.6000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		77.5444	77.5444	2.1600e- 003	2.0800e- 003	78.2174

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#### French Valley Commercial Project - South Coast AQMD Air District, Winter

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

#### **Mitigated Construction On-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Archit. Coating	5.1662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	5.3707	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

# **Mitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0290	0.0212	0.2761	7.6000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		77.5444	77.5444	2.1600e- 003	2.0800e- 003	78.2174
Total	0.0290	0.0212	0.2761	7.6000e- 004	0.0894	5.3000e- 004	0.0900	0.0237	4.9000e- 004	0.0242		77.5444	77.5444	2.1600e- 003	2.0800e- 003	78.2174

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French Valley Commercial Project - South Coast AQMD Air District, Winter

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

#### **Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Archit. Coating	5.1662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	5.3578	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

#### **Unmitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0270	0.0188	0.2547	7.4000e- 004	0.0894	5.0000e- 004	0.0899	0.0237	4.6000e- 004	0.0242		75.5079	75.5079	1.9500e- 003	1.9200e- 003	76.1281
Total	0.0270	0.0188	0.2547	7.4000e- 004	0.0894	5.0000e- 004	0.0899	0.0237	4.6000e- 004	0.0242		75.5079	75.5079	1.9500e- 003	1.9200e- 003	76.1281

#### **Mitigated Construction On-Site**

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# French Valley Commercial Project - South Coast 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/o	day							lb/d	lay		
Archit. Coating	5.1662					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	5.3578	1.3030	1.8111	2.9700e- 003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

#### **Mitigated Construction Off-Site**

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0270	0.0188	0.2547	7.4000e- 004	0.0894	5.0000e- 004	0.0899	0.0237	4.6000e- 004	0.0242		75.5079	75.5079	1.9500e- 003	1.9200e- 003	76.1281
Total	0.0270	0.0188	0.2547	7.4000e- 004	0.0894	5.0000e- 004	0.0899	0.0237	4.6000e- 004	0.0242		75.5079	75.5079	1.9500e- 003	1.9200e- 003	76.1281

# 4.0 Operational Detail - Mobile

# **4.1 Mitigation Measures Mobile**

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# French Valley Commercial Project - South Coast 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	Exhaust	PM10 Total	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	lay		
Mitigated	5.8472	7.1147	60.0221	0.1334	14.2769	0.0992	14.3761	3.8044	0.0923	3.8967		13,733.872	-	0.8886	0.6087	13,937.483
Unmitigated	5.8472	7.1147	60.0221	0.1334	14.2769	0.0992	14.3761	3.8044	0.0923	3.8967		13,733.872	13,733.872	0.8886	0.6087	13,937.483

# **4.2 Trip Summary Information**

	Ave	erage Daily Trip Ra	te	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	842.98	842.98	842.98	3,320,359	3,320,359
Fast Food Restaurant with Drive Thru	255.50	255.50	255.50	771,489	771,489
Fast Food Restaurant with Drive Thru	889.00	889.00	889.00	2,684,358	2,684,358
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,987.48	1,987.48	1,987.48	6,776,206	6,776,206

# 4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
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
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	100	0	0
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant with Drive	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791

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

Other Nen Acabelt Surfaces	=	N 5/13130	0.060740	0.404760	0.420250	0 000000	0.006252	0.011718	0.000127	0.000010	0.000500	0.024402	0.000750	0.002704
Other Mon-Asphalt Surfaces	-	0.343139	0.000749	0.104/00	0.130230	0.023830	0.000333	0.011718	0.009137	0.000812	0.000509	0.024193	0.000730	0.003791
•														
	-		-	-	-	-	-				-		-	

# 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/c	lay							lb/c	lay		
NaturalGas Mitigated	0.0313	0.2847	0.2392	1.7100e- 003		0.0216	0.0216		0.0216	0.0216		341.6720	341.6720	6.5500e- 003	6.2600e- 003	343.7024
NaturalGas Unmitigated	0.0313	0.2847	0.2392	1.7100e- 003		0.0216	0.0216		0.0216	0.0216		341.6720	341.6720	6.5500e- 003	6.2600e- 003	343.7024

# 5.2 Energy by Land Use - NaturalGas Unmitigated

	NaturalGa s 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/d	day							lb/d	ay		
Automobile Care	461.478		0.0452	0.0380	2.7000e-		3.4400e-003			:	3.4400e-003		54.2915	54.2915	1.0400e-	1.0000e-	54.6141
Center		003			004			003		003					003	003	
Fast Food	1897.41	0.0205	0.1860	0.1563	1.1200e-		0.0141	0.0141		0.0141	0.0141		223.2253	223.2253	4.2800e-	4.0900e-	224.5518
Restaurant with					003										003	003	
Fast Food	545.32	5.8800e-	0.0535	0.0449	3.2000e-		4.0600e-003	4.0600e-		4.0600e-	4.0600e-003		64.1553	64.1553	1.2300e-	1.1800e-	64.5365
Restaurant with		003			004			003		003					003	003	
Other Non-Asphalt	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
Surfaces											<u>:</u>						

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# French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Parking Lot	0		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0313	0.2847	0.2392	1.7100e- 003	0.0216	0.0216	0.0216	0.0216	341.6720	341.6720	6.5500e- 003	6.2700e- 003	343.7024

#### **Mitigated**

	NaturalGa s Use	ROG	NOx	СО	SO2	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/d	ay		
Automobile Care Center	0.461478	4.9800e- 003	0.0452	0.0380	2.7000e- 004		3.4400e-003	3.4400e- 003		3.4400e- 003	3.4400e-003		54.2915	54.2915	1.0400e- 003	1.0000e- 003	54.6141
Fast Food Restaurant with	0.54532	5.8800e- 003	0.0535	0.0449	3.2000e- 004		4.0600e-003	4.0600e- 003		4.0600e- 003	4.0600e-003		64.1553	64.1553	1.2300e- 003	1.1800e- 003	64.5365
Fast Food Restaurant with	1.89741	0.0205	0.1860	0.1563	1.1200e- 003	••••••	0.0141	0.0141		0.0141	0.0141		223.2253	223.2253	4.2800e- 003	4.0900e- 003	224.5518
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000	•••••	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	•••••	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0313	0.2847	0.2392	1.7100e- 003		0.0216	0.0216		0.0216	0.0216		341.6720	341.6720	6.5500e- 003	6.2700e- 003	343.7024

# 6.0 Area Detail

# **6.1 Mitigation Measures Area**

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# French Valley Commercial Project - South Coast 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/e	day							lb/c	lay		
Mitigated	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003
Unmitigated	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003

# 6.2 Area by SubCategory Unmitigated

	ROG	NOx	СО	SO2	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/o	day							lb/c	lay		
Architectural Coating	0.0142					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e- 004	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003
Total	0.2136	1.0000e-005	1.0700e- 003	0.0000		0.0000	0.0000		0.0000	0.0000		2.3000e- 003	2.3000e- 003	1.0000e- 005		2.4500e- 003

#### **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/c	lay		
Architectural Coating	0.0142					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Date: 4/13/2022 4:47 PM

#### French Valley Commercial Project - South Coast AQMD Air District, Winter

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

Consumer Products	0.1994				0.0000	0.0000	0.0000	0.0000		0.0000		0.0000
Landscaping		1.0000e-005		0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e- 003	2.3000e- 003	1.0000e- 005	2.4500e- 003
Total	0.2136	1.0000e-005	1.0700e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	2.3000e- 003	2.3000e- 003	1.0000e- 005	2.4500e- 003

#### 7.0 Water Detail

# 7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

#### 8.0 Waste Detail

# 8.1 Mitigation Measures Waste

# 9.0 Operational Offroad

Equipment Type	Number	Hours/Dav	Days/Year	Horse Power	Load Factor	Fuel Type
Equipment Type	Number	1 louis/Day	Days/Teal	Horse Power	Load I actor	i dei Type

# 10.0 Stationary Equipment

#### **Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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# 11.0 Vegetation