

Appendix B

Air Quality and Greenhouse Gas Report

Development at Dale Evans and Lafayette

And

CalEEMod Runs

Prepared by

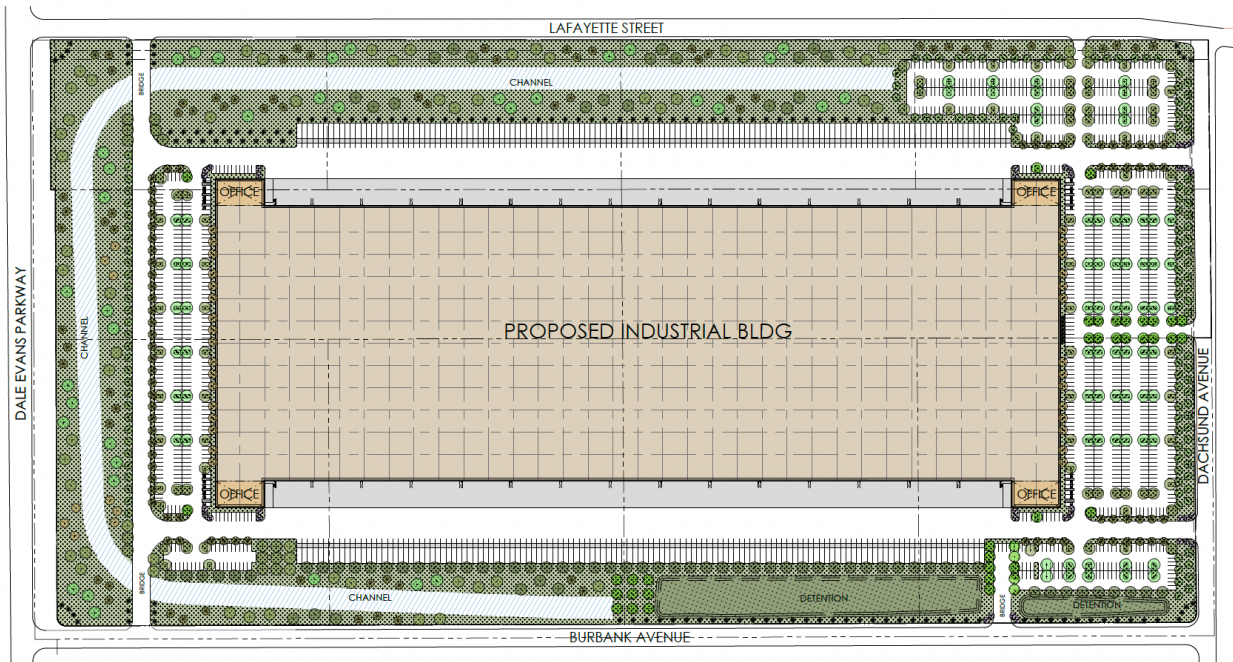
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January 2023

AIR QUALITY AND GREENHOUSE GAS REPORT

DEVELOPMENT AT DALE EVANS AND LAFAYETTE

Apple Valley, San Bernardino County, California



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January 2023

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ES EXECUTIVE SUMMARY

This Air Quality and Greenhouse Gas Report was prepared to accompany the Environmental Impact Report (EIR) for the proposed Development at Dale Evans and Lafayette (referred to as the Project). The purpose of this report is to assess the potential air quality and greenhouse gas (GHG) impacts associated with the construction and operation of the proposed Project in accordance with Appendix G of the California Environmental Quality Act (CEQA) Guidelines.

Section 1 of this report introduces the proposed Project. Sections 2 and 4 provide background information on air quality and climate change. Sections 3 and 5 analyze the potential impacts of the Project on air quality and greenhouse gas emissions, respectively.

ES.1 Air Quality

The Project is located in the Mojave Desert Air Basin, within the jurisdictional boundary of the Mojave Desert Air Quality Management District (MDAQMD). The Project would comply with the strategies and rules established in the MDAQMD's applicable air quality plans.

The emissions of criteria air pollutants expected to result from the Project were calculated using the California Emissions Estimator Model (CalEEMod). Analysis found that while the Project would result in criteria pollutant emissions during both its construction and operations, these emissions would not exceed the thresholds established by the MDAQMD. This report also determined that the Project would not expose sensitive receptors to substantial pollutant concentrations, nor would it result in other emissions (such as odors) that would adversely effect sensitive receptors. Overall, the Project's impacts on air quality were determined to be less than significant, and no mitigation measures were required.

ES.2 Greenhouse Gases

The Project's GHG emissions are subject to the MDAQMD as well as the Town of Apple Valley's 2019 Climate Action Plan (CAP) Update. CalEEMod was used to project the GHG emissions expected to result from construction and operation of the proposed Project. The combined emissions were found to be within the MDAQMD's GHG emissions threshold of 100,000 MTCO_{2e} per year. Based on the Project's compliance with the Town's CAP, the proposed development was also found to comply with the South Coast Air Quality Management District's Tier 2 significance criterion (see Section 5 of this document), which requires compliance with a GHG reduction plan consistent with the goals of Assembly Bill 32.

Overall, this report determined that the Project's impacts on GHG emissions would be less than significant with the implementation of mitigation measures from the Town's CAP. Specifically, the Project must establish an employee carpooling program and provide employees with free or discounted public transit passes.

1 INTRODUCTION

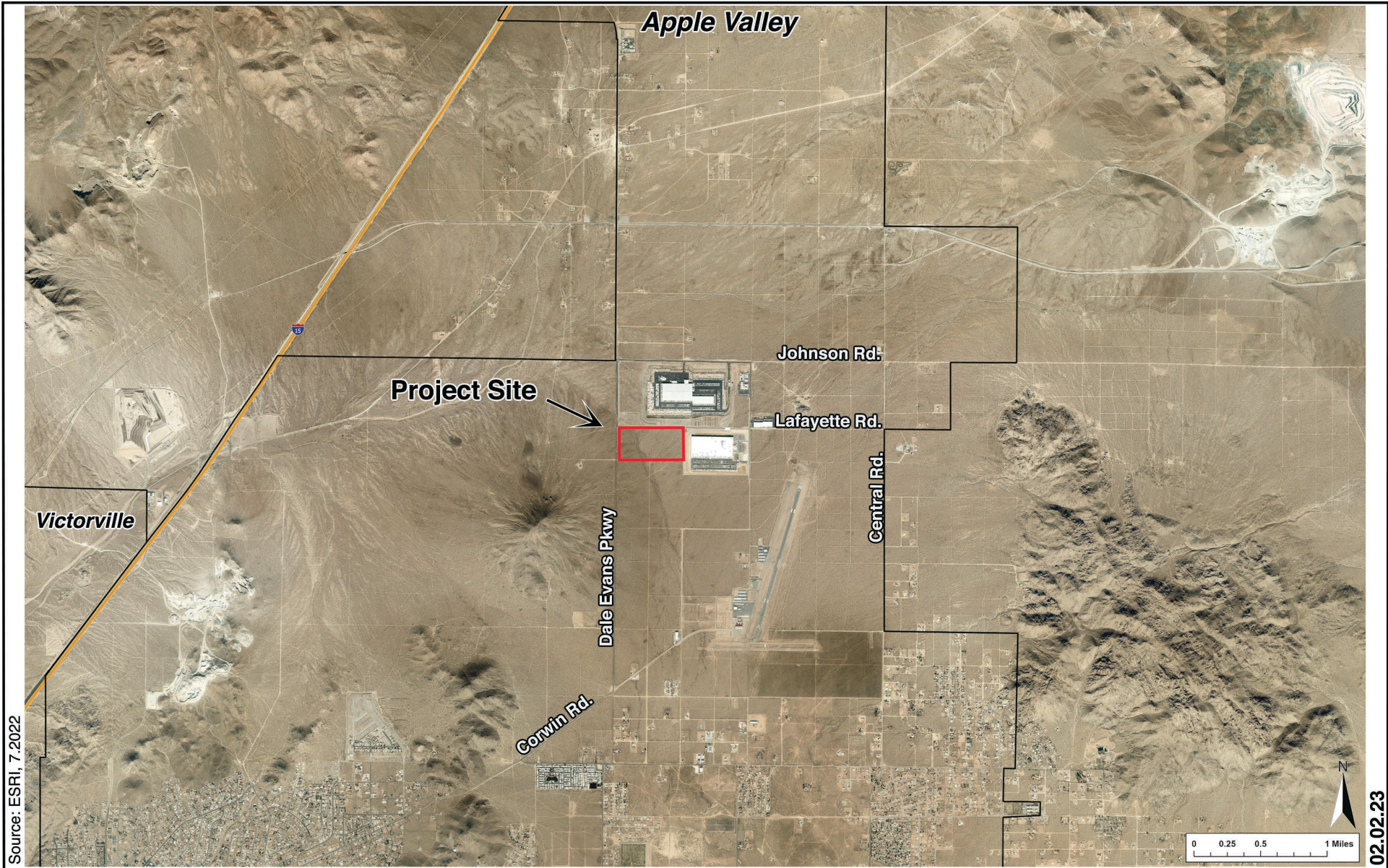
1.1 Site Location

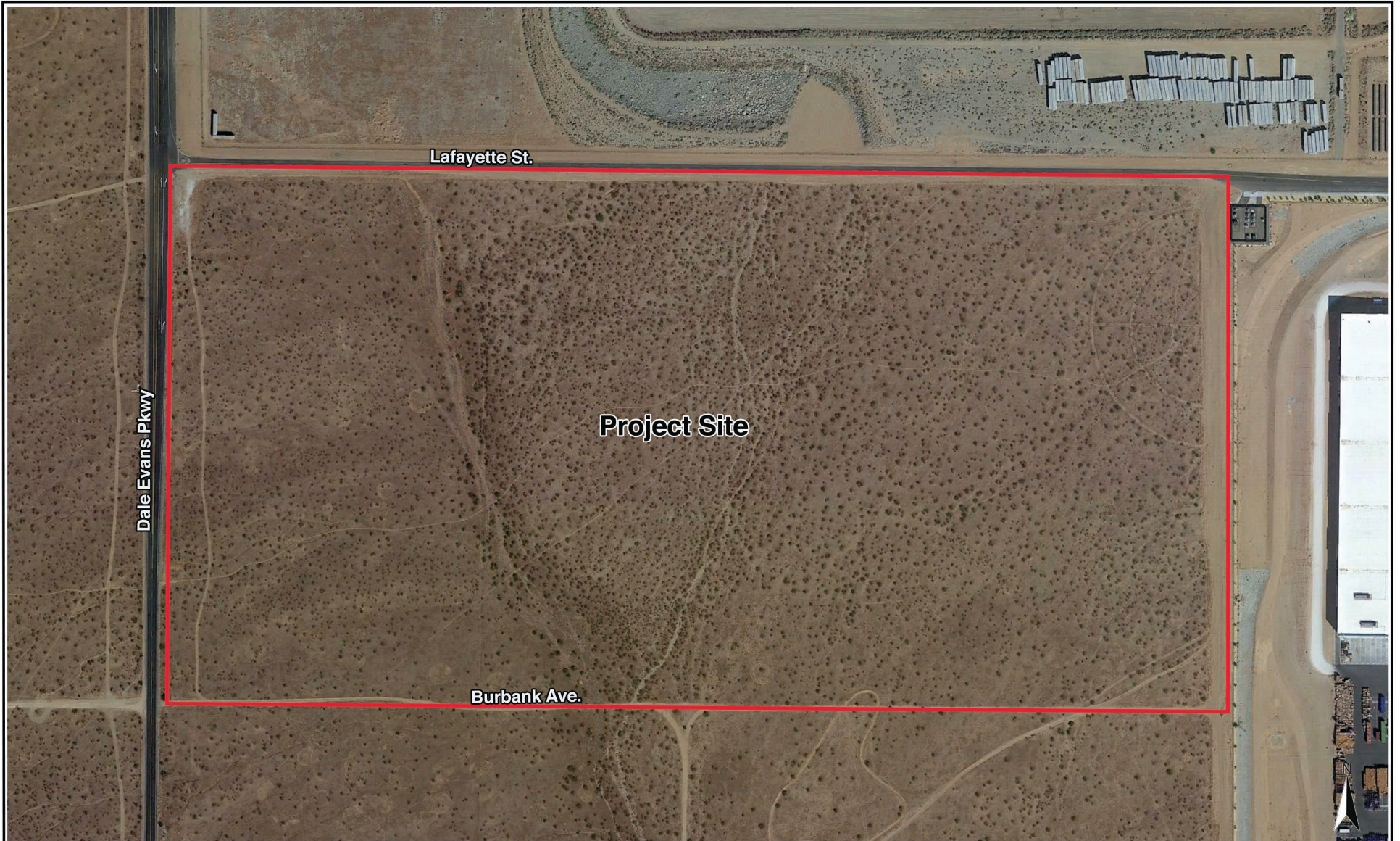
The Project proposes the development of an approximately 77-acre parcel of land in the Town of Apple Valley (Exhibit 1). The site is bounded by Dale Evans Parkway to the west, Lafayette Street to the north, Dachshund Avenue to the east, and Burbank Avenue to the south (Exhibit 2). Surrounding land uses include a Walmart warehouse and distribution center to the north, a Big Lots warehouse and distribution center to the east, and vacant lands to the south and west. The subject property is within the boundary of the 2006 North Apple Valley Industrial Specific Plan (NAVISP).

1.2 Project Description

As shown in Exhibit 3, the Project proposes to develop a 1,207,544 square foot warehouse distribution center. The 77± acre development will include 1,147,167 square feet of warehouse space and 60,377 square feet of office space, housed in a single building occupying the center of the site. For purposes of this analysis, it has been assumed that 85% of the space would be used for dry warehousing, and 15% for cold storage. The warehouse will be accessible via 204 dock doors, while the offices will each be provided with a single man-door. A total of 1,218 parking spaces are proposed, including both standard parking spaces (for employee and guest parking) and truck/trailer spaces.

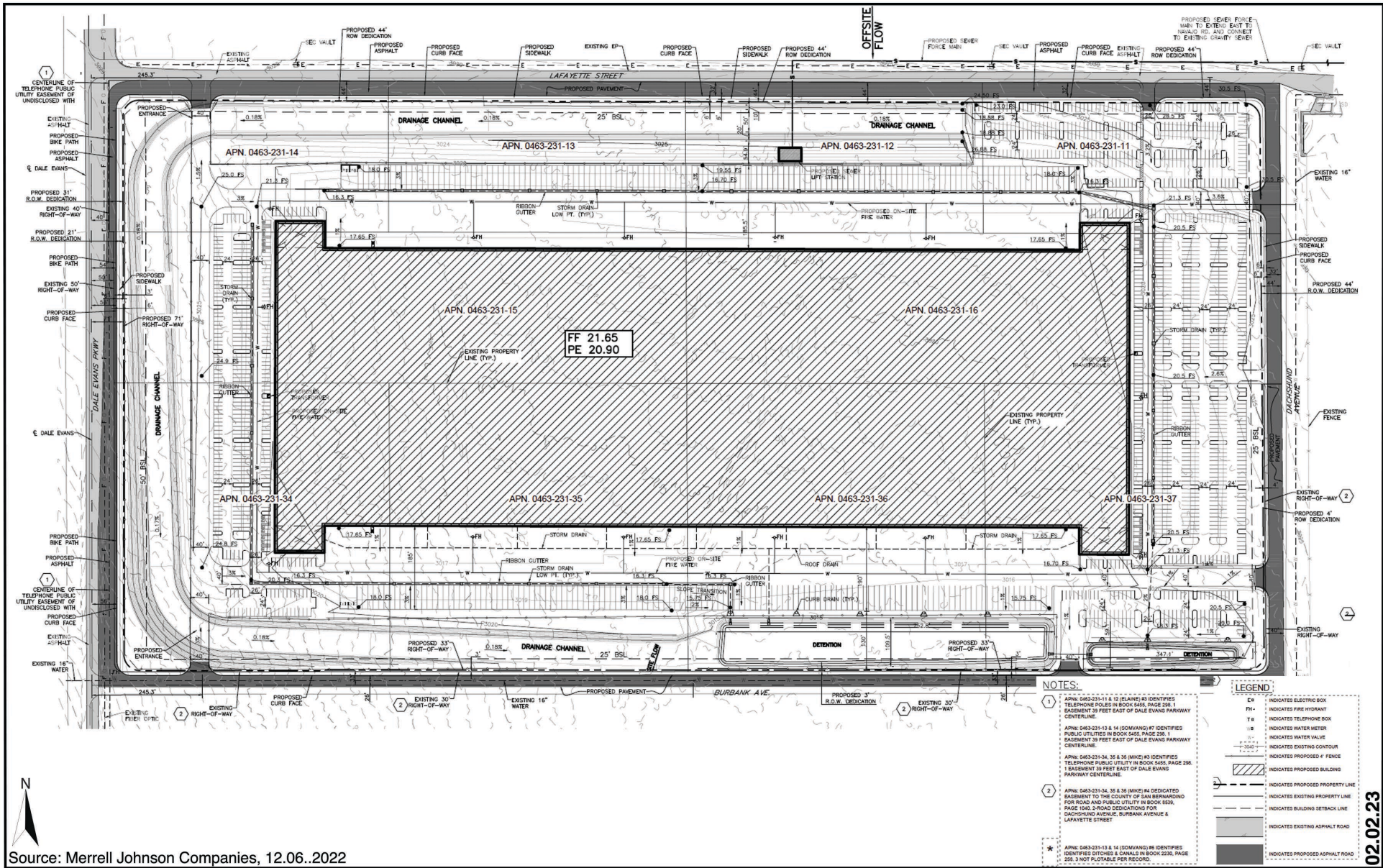
Drainage through and from the site will be contained via a perimeter channel that traverses the developed area on the north, west and south. At buildout, the project site will have 36% building coverage, and 22% landscaping.





Source: Google Earth, 7.2022

02.02.23



Source: Merrell Johnson Companies, 12.06..2022

NOTES:

1) APNs 0463-231-11 & 12 (ELAINNE) #3 IDENTIFIES TELEPHONE POLES IN BOOK 548E, PAGE 286. 1 EASEMENT 39 FEET EAST OF DALE EVANS PARKWAY CENTERLINE.

2) APNs 0463-231-13 & 14 (DOMIANG) #1 IDENTIFIES PUBLIC UTILITIES IN BOOK 548E, PAGE 286. 1 EASEMENT 39 FEET EAST OF DALE EVANS PARKWAY CENTERLINE.

3) APNs 0463-231-34, 35 & 36 (MIKE) #3 IDENTIFIES TELEPHONE PUBLIC UTILITY IN BOOK 548E, PAGE 286. 1 EASEMENT 39 FEET EAST OF DALE EVANS PARKWAY CENTERLINE.

4) APNs 0463-231-34, 35 & 36 (MIKE) #4 DEDICATED EASEMENT TO THE COUNTY OF SAN BERNARDINO FOR ROAD AND PUBLIC UTILITY IN BOOK 553E, PAGE 1440. 2-ROAD DEDICATIONS FOR DACHSHUND AVENUE, BURBANK AVENUE & LAFAYETTE STREET.

5) APNs 0463-231-13 & 14 (DOMIANG) #6 IDENTIFIES IDENTIFIED DITCHES & CANALS IN BOOK 520E, PAGE 255. 3 NOT PLOTTABLE PER RECORD.

LEGEND:

- EB INDICATES ELECTRIC BOX
- FH INDICATES FIRE HYDRANT
- T# INDICATES TELEPHONE BOX
- W# INDICATES WATER METER
- WV INDICATES WATER VALVE
- INDICATES EXISTING CONTOUR
- - - - - INDICATES PROPOSED FENCE
- ▨▨▨▨ INDICATES PROPOSED BUILDING
- INDICATES EXISTING PROPERTY LINE
- - - - - INDICATES EXISTING PROPERTY LINE
- - - - - INDICATES BUILDING SETBACK LINE
- ▨▨▨▨ INDICATES EXISTING ASPHALT ROAD
- ▨▨▨▨ INDICATES PROPOSED ASPHALT ROAD

02.02.23



The Development at Dale Evans and Lafayette Project Site Plan Apple Valley, California

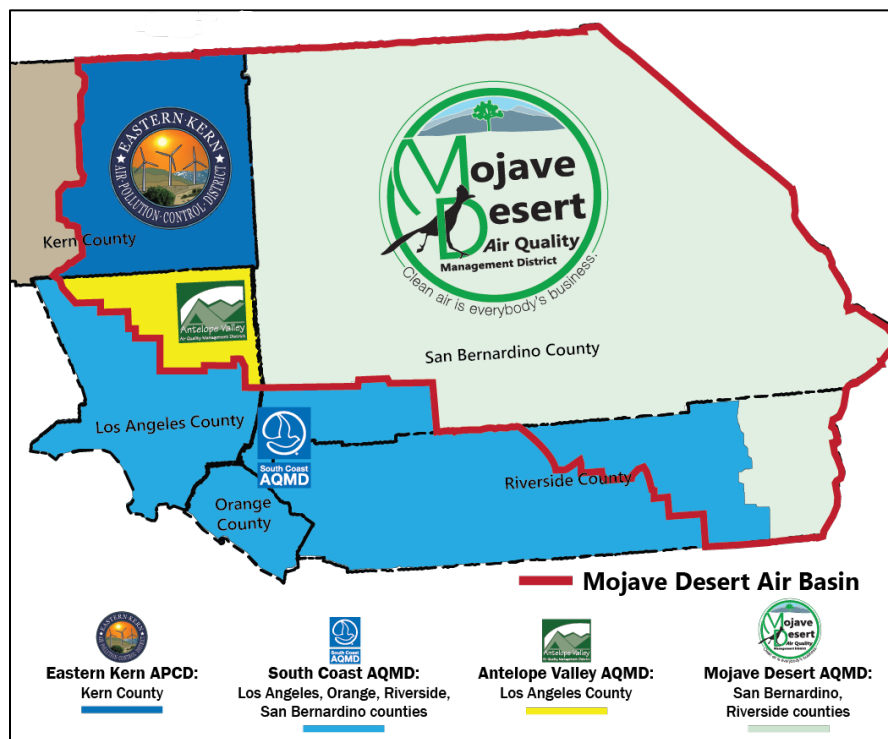
2 AIR QUALITY SETTING

2.1 Atmospheric Setting

The Project site is within the Mojave Desert Air Basin (MDAB). As shown in Figure 1, the MDAB encompasses the high desert portion of San Bernardino County, as well as portions of eastern Kern County, northeastern Los Angeles County, and eastern Riverside County. The basin reaches from the Cajon Pass and Palo Verde Valley, in the southwest and southeast, respectively, north to the unincorporated community of Trona and the state border with Nevada. The topography of the MDAB is defined by a series of mountain ranges and long broad valleys. Mountain ranges with elevations of up to 10,000 feet separate the MDAB from central California and coastal southern California.

Prevailing winds in the basin area are from the west and southwest, channeled from the coast and through the MDAB by the mountains. The high desert receives infrequent moisture from warm and moist air masses from the south. It averages between three and seven inches of precipitation per year.¹ The MDAB is mostly classified as a dry-hot desert climate, with portions classified as very-dry hot, with temperatures averaging over 100.4° F during at least three months of the year.²

Figure 2-1: Boundaries of the Mojave Desert Air Basin



Source: Mojave Desert Air Quality Management District, <https://www.mdaqmd.ca.gov/about-us>

¹ San Bernardino Countywide Plan Draft PEIR, Environmental Analysis, Air Quality (June 2019).

² Mojave Desert Air Quality Management District CEQA Guidelines (February 2020).

2.2 Criteria Pollutants

Criteria air pollutants are air pollutants for which acceptable levels of exposure have been determined, and which regulated by Ambient Air Quality Standards (AAQS). The AAQS were established through the federal Clean Air Act (first enacted in 1963) and the California Clean Air Act (1988). The current criteria air pollutants are: ozone (O₃), carbon monoxide (CO), particulate matter (PM₁₀), fine particulate matter (PM_{2.5}), nitrogen dioxide (NO₂), lead (Pb), sulfur dioxide (SO₂), and hydrogen sulfide (H₂S).

Air pollution contributes to a wide variety of health impacts, including heart and lung illnesses, chronic health conditions, increased cancer rates, and premature death. For example, PM_{2.5} pollution is linked with hundreds of emergency room visits for respiratory and cardiovascular disease annually, as well as brain health and adverse birth outcomes. Elevated ozone levels in California are also associated with hospitalizations, lost school days, and premature death.³ These health impacts disproportionately impact residents of low-income and disadvantaged communities.

Table 2-1 below outlines the primary human-caused emissions sources of criteria pollutants, as well as the effects of these pollutants on human health.

| Table 2-1 Criteria Pollutants and Health Impacts | | |
|---|--|---|
| Criteria Pollutant | Source | Health Effects |
| Ozone (O ₃) | A secondary pollutant resulting from hydrocarbons and oxides of nitrogen, emitted by cars, solvents, factories and pesticides, reacting in the presence of sunlight. | Difficulty breathing, chest pains, aggravate lung diseases such as asthma, emphysema, and chronic bronchitis. Shortness of breath, coughing, and lung damage with prolonged and chronic exposure. |
| Carbon Monoxide (CO) | Fossil fuel combustion by vehicles, as well as household sources such as some appliances, fireplaces, portable generators, charcoal grills. | Headaches, dizziness, vomiting, and nausea. Risk of loss of unconsciousness or death. |
| Particulate Matter (PM ₁₀) and Fine Particulate Matter (PM _{2.5}) | Fugitive dust from construction projects and vehicles on unpaved roads. Industrial smokestacks and wildfires. Atmospheric formation from SO ₂ and NO _x . | Coughs, asthma, cancer, lung damage, heart attacks, and premature death. |

³ California Air Resources Board Proposed 2022 State SIP Strategy (August 2022).

| Table 2-1 Criteria Pollutants and Health Impacts | | |
|---|--|---|
| Criteria Pollutant | Source | Health Effects |
| Nitrogen Dioxide (NO ₂) | Fossil fuel combustion by vehicles, off road equipment, power generation, and household appliances such as furnaces, clothes dryers, ovens, fireplaces. | Lung damage and irritation. |
| Lead (Pb) | Lead smelters, ore and metals processing, combustion of leaded aviation fuel, waste incinerators, utilities, and lead-acid battery manufacturing facilities. | Damage to nervous system, kidney function, immune system, reproductive and developmental systems, and cardiovascular systems. |
| Sulfur Dioxide (SO ₂) | Combustion of fossil fuels by power plants and industries, refineries, and diesel engines. | Irritates the nose, throat, and airways. Coughing, shortness of breath, tightness of chest. Individuals with asthma at high risk for developing issues. |
| Hydrogen Sulfide (H ₂ S) | Geothermal power plants, petroleum production, sewer gas. | Rotten egg smell, headache, skin complications, respiratory damage. |
| Sources: CARB 2022 Scoping Plan Update, Environmental and Regulatory Setting, Table 3; MDAQMD Air Quality & Health, https://www.mdaqmd.ca.gov/air-quality/air-quality-health (Accessed Oct 21, 2022) | | |

2.2.1 Toxic Air Contaminants

According to §39655 of the California Health and Safety Code, a toxic air contaminant (TAC) is “an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health.” The Health and Safety Code definition of TACs also covers substances listed as hazardous air pollutants pursuant to §7412 of Title 42 of the United States Code. TACs are identified and controlled by the California Air Resources Board (CARB) in conjunction with the Office of Environmental Health Hazard Assessment (OEHHA). As an exception, TACs used in pesticides are regulated by the Department of Pesticide Regulation.

Notable TACs include asbestos, benzene, chloroform, as well as inorganic lead and arsenic. The particulate matter emitted by diesel-fueled engines is also identified by CARB as a TAC.⁴

⁴ California Air Resources Board, Toxic Air Contaminant Identification Reports <https://ww2.arb.ca.gov/resources/documents/toxic-air-contaminant-identification-reports> (accessed November 2022).

2.3 Current Conditions

The National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) establish thresholds to determine whether the contaminant levels in the air are considered unhealthy. The current federal and state standards are shown in Table 2-2.

| Table 2-2 Ambient Air Quality Standards | | | | |
|--|-------------------------|----------------------------------|-----------------------------|----------------------|
| Pollutant | Averaging Time | California Standards | National Standards | |
| | | Concentrations ¹ | Primary | Secondary |
| Ozone (O ₃) | 1 Hour | 0.09 ppm | -- | |
| | 8 Hour | 0.070 ppm | 0.070 ppm | |
| Particulate Matter (PM ₁₀) | 24 Hour | 50 µg/m ³ | 150 µg/m ³ | |
| | AAM ² | 20 µg/m ³ | -- | |
| Fine Particulate Matter (PM _{2.5}) | 24 Hour | -- | 35 µg/m ³ | |
| | AAM | 12 µg/m ³ | 12.0 µg/m ³ | 15 µg/m ³ |
| Carbon Monoxide | 1 Hour | 20 ppm | 35 ppm | -- |
| | 8 Hour | 9.0 ppm | 9 ppm | -- |
| Nitrogen Dioxide (NO ₂) | 1 Hour | 0.18 ppm | 100 ppb | -- |
| | AAM | 0.030 ppm | 0.053 ppm | |
| Sulfur Dioxide (SO ₂) | 1 Hour | 0.25 ppm | 75 ppb | -- |
| | 3 Hour | -- | -- | 0.5 ppm |
| | 24 Hour | 0.04 ppm | 0.14 ppm | -- |
| | AAM | -- | 0.030 ppm | -- |
| Lead | 30 Day Average | 1.5 µg/m ³ | -- | -- |
| | Calendar Quarter | -- | 1.5 µg/m ³ | |
| | Rolling 3-Month Average | -- | 0.15 µg/m ³ | |
| Visibility Reducing Particles | 8 Hour | -- | No National Standards | |
| Sulfates | 24 Hour | 25 µg/m ³ | | |
| Hydrogen Sulfide | 1 Hour | 0.03 ppm (42 µg/m ³) | | |
| Vinyl Chloride | 24 Hour | 0.01 ppm (26 µg/m ³) | | |

¹ µg/m³ = micrograms per cubic meter of air
² AAM = Annual Arithmetic Mean
Source: California Air Resources Board <https://ww2.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf> (May 2016)

The air quality of an area is in attainment if the measure ambient air pollutant levels, for the pollutants in the above table, are not exceeded and all other standards are not exceeded at any time in any consecutive three-year period. Attainment also assumes the national standards (other than O₃, PM₁₀, and those based on annual averages or arithmetic mean) are not exceeded more than once per year. The ozone standard is in attainment when the fourth highest 8-hour concentration in a year, averaged over three years, is equal to or less than the standard. For PM₁₀,

the 24-hour standard is attained when 99% of the daily concentrations, averaged over three years, are equal to or less than the standard.

Pursuant to the Federal Clean Air Act, areas that do not meet these standards must prepare State Implementation Plans (SIPs) establishing strategies and deadlines for attainment of the NAAQS and CAAQS. Additionally, air quality districts with non-attainment areas under their jurisdiction must prepare attainment plans providing steps for the implementation, maintenance, and enforcement of the air quality standard within the required timeframe.

2.3.1 Regional Air Quality – Air Basin

The Project is located in the Western Mojave Desert region within the Mojave Desert Air Basin (MDAB). The MDAB is under the jurisdiction of the Mojave Desert Air Quality Management District (MDAQMD) and the Antelope Valley AQMD. The Project site is within the jurisdictional boundaries of the MDAQMD.

Air quality in the MDAB is impacted not just by emissions sources within the basin, but also by activity in the broader region. The primary contributor to air pollution in California is the burning of fossil fuels for transportation, power and heat generation, and industrial processes.⁵ The MDQAMD encompasses major roadways, such as the Interstate 40, State Route 58 and Interstate 395, which carry a substantial amount of heavy-duty truck traffic. Likewise, the Interstate 15 carries a substantial amount of commuter traffic connecting to the Los Angeles area, pollutant emissions from which may affect air quality in the MBAD.⁶ Fine particulate matter and ozone, two of the pollutants that have the greatest potential public health impacts, are also emitted by fuel and wood combustion, as well as indirectly by chemical reactions resulting from motor vehicle and industrial activity.⁷

Table 2-3 shows the West Mojave Desert’s attainment status for the criteria air pollutants, as designated by the EPA. The West Mojave Desert is designated as being in nonattainment for regional levels of particulate matter (PM₁₀) and ozone (O₃). Under the federal Clean Air Act, the MDAB is designated as being in “moderate” ozone non-attainment.

| Table 2-3 Regional Attainment Status – West Mojave Desert | |
|--|--------------------------|
| Criteria Pollutant | Attainment Status |
| Ozone (O ₃) | Nonattainment |
| Carbon Monoxide (CO) | Attainment |
| Fine Particulate Matter (PM _{2.5}) | Attainment |
| Particulate Matter (PM ₁₀) | Nonattainment (moderate) |

⁵ Town of Apple Valley 2019 Climate Action Plan Update, p. 8.

⁶ MDAQMD Federal 8-hour Ozone Attainment Plan (June 2008).

⁷ California Air Resources Board, Sources of Air Pollution, <https://ww2.arb.ca.gov/resources/sources-air-pollution> (Accessed November 2022).

| Table 2-3 Regional Attainment Status – West Mojave Desert | |
|--|--------------------------|
| Criteria Pollutant | Attainment Status |
| Nitrogen Dioxide (NO ₂) | Attainment |
| Lead (Pb) | Attainment |
| Sulfur Dioxide (SO ₂) | Attainment |

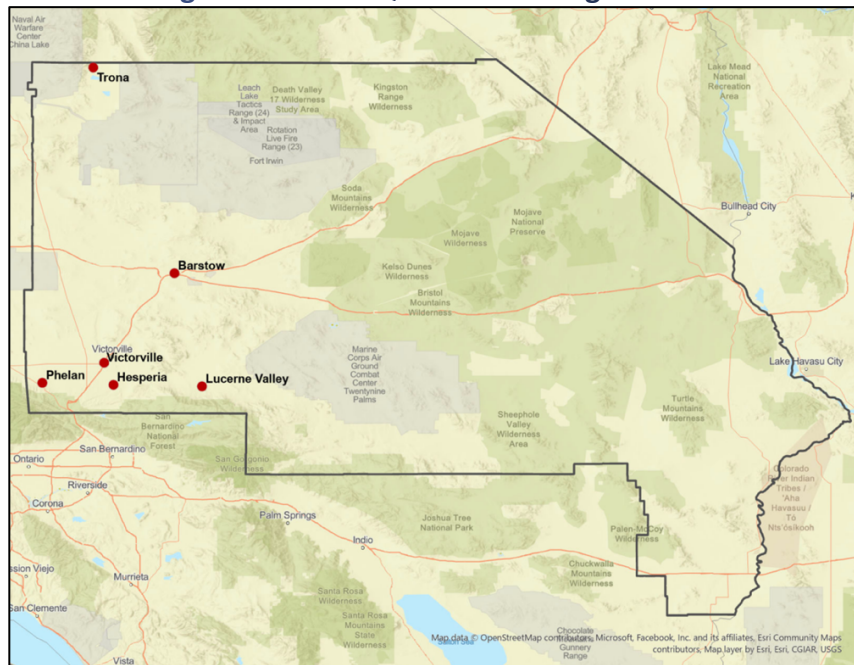
Source: EPA Green Book (September 2022)

Given the dispersing nature of air pollutants, the MDAB is subject to the aggregate impacts of neighboring jurisdictions. For example, fugitive dust in the MDAB results from both local sources and periodic region-wide high wind events.⁸ Additionally, the MDAB receives prevailing winds which blow ozone from the Los Angeles and San Joaquin Valley basins during the summer. While activity in the MDAQMD contributes to ozone emissions, modeling conducted by the South Coast Air Quality Management District and California Air Resources Board indicate that the MDAB would be in attainment for ozone if not for the air pollution transported from upwind regions.⁹

2.3.2 Local Air Quality

Air quality is measured at monitoring stations operated by the air quality management district. The MDAQMD operates six air monitoring stations distributed across its jurisdiction in Trona, Barstow, Victorville, Hesperia, Phelan, Lucerne Valley. The nearest monitoring station to the Project is the Victorville Monitoring Station located at 14036 Park Avenue. The station is located approximately 9 miles southwest of the Project site.

Figure 2-2: MDAQMD Monitoring Stations



⁸ MDAQMD Federal Particulate Matter (PM₁₀) Attainment Plan (July 1995).

⁹ MDAQMD Federal 8-hour Ozone Attainment Plan (June 2008).

The following tables show the maximum concentration and number of days annually that ambient air quality measured at the Victorville Monitoring Station exceeded state and national standards for ozone and particulate matter (PM₁₀) from 2016 to 2021.

Table 2-4 shows the ozone monitoring data for the Victorville Park Avenue monitoring station. The data for both maximum concentrations and number of days exceeding standards fluctuates over the six-year period, and there is no clear trend indicating worsening or improving ozone concentrations.

| Table 2-4 Ozone Monitoring Data | | | | | | |
|--|-------------|------------------------------|-------------------------------|---|---------------|---------------|
| Monitoring Station | Year | Maximum Concentration | | Number of Days Standard Exceeded | | |
| | | 1 Hour ppm | 8 Hour ppm¹ | Federal | State | |
| | | | | 8 Hour² | 1 Hour | 8 Hour |
| Victorville Park Avenue | 2016 | 0.100 | 0.085 | 33 | 4 | 35 |
| | 2017 | 0.088 | 0.081 | 17 | 0 | 19 |
| | 2018 | 0.107 | 0.096 | 55 | 5 | 56 |
| | 2019 | 0.104 | 0.081 | 29 | 3 | 34 |
| | 2020 | 0.112 | 0.094 | 35 | 4 | 38 |
| | 2021 | 0.112 | 0.098 | 34 | 8 | 35 |

Source: iAdam: Air Quality Data Statistics, California Air Resources Board; www.arb.ca.gov/adam.
¹ 8-Hour Average National 0.07 ppm Standard Maximum
² Days Exceeding National 0.070 ppm Standard

Table 2-5 shows the PM₁₀ data for the Victorville monitoring station. The data indicates fluctuations in PM₁₀ concentrations over the six-year period. Insufficient data was collected for the maximum concentration and number of days exceeding the state standard.

| Table 2-5 Particulate Matter 10 Monitoring Data | | | | | | |
|--|-------------|--|--------------------------|---|--------------|---|
| Monitoring Station | Year | Maximum Concentration (µg/m³/24 hours) | | Number of Days Standard Exceeded | | Annual Arithmetic Mean² |
| | | Federal | State¹ | Federal | State | |
| Victorville Park Avenue | 2016 | 226.5 | * | 1.9 | * | 29.2 |
| | 2017 | 182.5 | * | 1.0 | * | 30.1 |
| | 2018 | 165.2 | * | 1.0 | * | 29.8 |
| | 2019 | 170.0 | * | 1.9 | * | 27.2 |
| | 2020 | 261.4 | * | 1.9 | * | 34.0 |
| | 2021 | 591.6 | * | 1.0 | * | 33.9 |

Source: iAdam: Air Quality Data Statistics, California Air Resources Board; www.arb.ca.gov/adam.
¹ * = There was insufficient (or no) data available to determine the value.
² Federal Annual Average Standard AAM exceeding 50 µg/m³

2.4 Regulatory Background

Federal, state, and local policies aim to reduce air pollution by regulating air quality and the sources of pollution emissions. The following section describes relevant air quality policies and regulations.

2.4.1 Federal Regulations

Federal Clean Air Act (FCAA) - 42 U.S.C. §7401 et seq.

The Federal Clean Air Act, which was first enacted in 1970 and last amended in 1990, remains the federal government’s primary air quality law regulating air emissions from stationary and mobile sources. There are several regulatory programs brought about by FCAA amendments, including National Ambient Air Quality Standards (NAAQS), National Emissions Standards for Hazardous Air Pollutants (NESHAPs), New Source Performance Standards (NSPS), the Acid Rain Program (APP), and the CAA ozone program consistent with the Montreal Protocol. Notably, the FCAA gives the Environmental Protection Agency (EPA) that authority to establish the National Air Quality Standards.

National Ambient Air Quality Standards (NAAQS)

The FCAA authorizes the EPA to establish National Ambient Air Quality Standards (40 CFR Part 50) for six criteria air pollutants which are potentially harmful to the public and to the environment. The NAAQS define what qualifies as clean air by identifying the maximum amount of a pollutant, averaged over a specified timeframe, that can be present without harming public health.¹⁰ The EPA reviews the NAAQS at five-year intervals, and makes revisions as needed. The six criteria air pollutants currently covered by the NAAQS are: particulate matter (PM₁₀ and PM_{2.5}), ozone (O₃), nitrogen oxides (NO_x), sulfur oxides (SO_x), carbon monoxide (CO), and lead. Under the FCAA, nonattainment areas (areas that exceed that maximum standard for one or more of the criteria pollutants) must prepare State Implementation Plans (SIPs) describing the actions the area will take to meet the NAAQS by the applicable attainment deadlines.

2.4.2 State Regulations

California Clean Air Act

The California Clean Air Act (CCAA) was passed into law in 1988, establishing ambient air quality standards for the State of California that exceed NAAQS, as well as accelerated attainment dates for criteria pollutants established in the FCAA. The CCAA establishes requirements for district air quality plans to ensure that the state standards for criteria pollutants are met.

¹⁰ California Air Resources Board, National Ambient Air Quality Standards
<https://ww2.arb.ca.gov/resources/national-ambient-air-quality-standards> (Accessed October 2022).

Title 24 Energy Efficiency Standards & California Green Building Standards

The Building Energy Efficiency Standards (Energy Code) were first adopted by the California Energy Commission in 1976 and have since been updated regularly. The Energy Code establishes indoor air quality requirements, in addition to energy and water efficiency requirements, for all newly construction buildings as well as additions and alterations to existing buildings.

2.4.3 Air Quality Management

California Air Resource Board

The California Air Resources Board (CARB) is part of the California Environmental Protection Agency and is responsible for preparation the SIP for submission to the EPA, as well as for overseeing air quality districts and approving district air quality plans. Established in 1967, the CARB regulates vehicle emissions standards and sets area designation for criteria pollutants.

Mojave Desert Air Quality Management District (MDAQMD)

The California Air Resources Board is responsible for regulating mobile emissions sources, while the air quality management districts, such as MDAQMD, are responsible for controlling stationary sources and enforcing regulations.

The MDAQMD regulates stationary source of air pollution within its jurisdiction, which covers 20,000 square miles including the High Desert in San Bernardino County and Palo Verde Valley in Riverside County. The District covers a large portion of the Mojave Desert Air Basin, which also overlaps with parts of the Eastern Kern Air Pollution Control District, the Antelope Valley AQMD, and the South Coast AQMD.

In response to designations of non-attainment for several air pollutants within the MDAB, the MDAQMD adopted ozone and particulate matter attainment plans. The Mojave Desert Planning Area Federal Particulate Matter Attainment Plan was adopted in 1995, in order to bring the Mojave Desert non-attainment area into attainment for NAAQS. The MDAQMD State and Federal Ozone Attainment Plan was adopted in 2004 and the MDAQMD Western Mojave Desert Non-attainment Area Ozone Attainment Plan was adopted in 2008 in an effort to bring the MDAB in attainment for Ozone federal NAAQS.

MDAQMD Federal Particulate Matter (PM₁₀) Attainment Plan (July 1995): This plan was adopted to comply with the federal requirements associated with PM₁₀ attainment planning, including a strategy for the adoption and implementation of reasonably available control measures. The plan was to demonstrate PM₁₀ attainment, in accordance with the NAAQS, by the end of December, 2000.

MDAQMD State and Federal Ozone Attainment Plan (April 2004): This plan provided the MDAQMD's strategy for the implementation, maintenance, and enforcement of the NAAQS for ozone by the end of 2007, as well as for progress towards meeting the State Ambient Air Quality Standards for ozone. It contains emissions limits, a monitoring program, a permit program, contingency measures, and air quality monitoring.

MDAQMD Western Mojave Desert Non-Attainment Area Ozone Attainment Plan (State and Federal) (June 2008): This plan provides the District’s strategy for achieving the federal 8-hour ozone standard in the West Mojave Desert non-attainment area by 2021.

The MDAQMD has established thresholds for certain criteria pollutants and monitors daily pollutant levels and meteorological conditions throughout the District. Based on the District’s emission thresholds for criteria pollutants, any project would be considered to have significant impacts to air quality if the daily emissions exceed the values shown in the table below during construction or operation:

| Table 2-6 MDAQMD Significant Emissions Thresholds | | |
|--|---|--------------------------------------|
| Criteria Pollutant | Annual Thresholds (short tons) | Daily Thresholds (pounds) |
| Greenhouse Gases (CO ₂ e) | 100,000 | 548,000 |
| Carbon Monoxide (CO) | 100 | 548 |
| Oxides of Nitrogen (NO _x) | 25 | 137 |
| Volatile Organize Compounds (VOC) | 25 | 137 |
| Oxides of Sulfur (SO _x) | 25 | 137 |
| Particulate Matter (PM ₁₀) | 15 | 82 |
| Particulate Matter (PM _{2.5}) | 12 | 65 |
| Hydrogen Sulfide (H ₂ S) | 10 | 54 |
| Lead (Pb) | 0.6 | 3 |
| Source: MDAQMD CEQA Guidelines (February 2020) | | |

2.4.3.1 Air Basin Regulations

The MDAQMD has adopted rules and regulations to improve and maintain air quality in the district. The rules and regulations also implement state and federal policies, such as the Clean Air Act. The current MDAQMA rule book contains 18 regulations and associated rules. Excerpts of applicable regulations to the Project are listed below. The complete list and full text of the current rule book is available on the MDAQMD website.¹¹

Regulation II – Permits

Rule 201: Permits to Construct: *A person shall not build, erect, install, alter, or replace any equipment, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce or control the issuance of air contaminants without first obtaining written authorization for such construction from the Air Pollution Control Officer. A permit to construct shall remain in effect until the permit to operate the equipment for which the application was filed is granted or denied, or the application is canceled.*

¹¹ MDAQMD Rule Book, <https://www.mdaqmd.ca.gov/rules/rule-book> (Accessed November 2022).

Regulation IV – Prohibitions

Rule 402: Nuisance: *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.*

Rule 403: Fugitive Dust Control: *Purpose - The purpose of this rule is to reduce the amount of PM10 entrained in the ambient air from anthropogenic Fugitive Dust sources within the District by requiring actions to prevent, reduce, or mitigate Fugitive Dust.*

Rule 404: Particulate Matter Concentration: *A person shall not discharge into the atmosphere from any source, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the table, the exact concentration permitted to be discharged shall be determined by linear interpolation.*

Regulation IX – Standards of Performance for New Stationary Sources

Rule 900: Standards of Performance for New Stationary Sources (NSPS): *This rule is enacted to adopt by reference all the applicable provisions regarding standards of performance for new stationary sources as set forth in 40 Code of Federal Regulations, Part 60 (40 CFR 60).*

Regulation XI – Source Specific Standards

Rule 1103: Cutback and Emulsified Asphalt: *To reduce emissions of volatile organic compounds (VOC) from the use of cutback and emulsified asphalts. The provisions of this rule apply to the manufacture, mixing, storage, use, and application of cutback and emulsified asphalts.*

Rule 1113: Architectural Coatings: *The purpose of this rule is to limit the quantity of Volatile Organic Compounds (VOC) in Architectural Coatings. Except as provided in subsection (A)(3), this Rule is applicable to any person who supplies, sells, offers for sale, manufactures, blends or repackages any Architectural Coating for use within the Mojave Desert Air Quality Management District as well as any person who applies or Solicits the application of any Architectural Coating within the District.*

Regulation XII – Federal Operating Permits

Rule 1200: General: *The purpose of Regulation XII is to implement the operating permit requirements of Title V of the Federal Clean Air Act (42 U.S.C. §§7661-7661f). This rule is also intended to comply with the requirements promulgated by the USEPA and set forth in 40 C.F.R. Part 70.*

Regulation XIII – New Source Review

Rule 1300: New Source Review General: *The purpose of this regulation is to set forth the requirements for the preconstruction review of all new or modified Facilities; ensure that the Construction or Modification of Facilities subject to this Regulation does not interfere with the attainment and maintenance of Ambient Air Quality Standards; and ensure that there is no net increase in the emissions of any Nonattainment Air Pollutants from new or modified Major Facilities which emit or have the Potential to Emit any Nonattainment Air Pollutant in an amount greater than or equal to the amounts set forth in District Rule 1303(B)(1).*

3 PROJECT AIR QUALITY IMPACT

3.1 Introduction

The following section analyzes the potential impacts associated with buildout of the proposed Project in conformance with the California Environmental Quality Act (CEQA).

3.2 Standards of Significance

The following thresholds are from the significance criteria listed in the CEQA Environmental Checklist included in Appendix G of the CEQA Guidelines. The Project would have a significant effect on air quality if the proposed Project were to:

- a) Conflict with or obstruct implementation of the applicable air quality plan?
- b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
- c) Expose sensitive receptors to substantial pollutant concentrations?
- d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

3.3 Methodology

The following analysis is based on proposed land uses and traffic trip information provided by Urban Crossroads, Inc. (2022). The Project proposes the development of a 1,207,544 square foot warehouse distribution center on a 77.95 ± acre site. It is assumed, for analysis purposes, that 85% of the building will be used for dry warehousing, and 15% for cold storage. The Project will potentially emit criteria air pollutants during both the construction and operational phases. In particular, the Project, as a warehouse distribution center, will generate emissions through distribution truck trips to and from the facility.

Construction and operational emissions were calculated using California Emissions Estimator Model (CalEEMod) Version 2020.4.0. CalEEMod is a computer program that can be used to estimate anticipated emissions associated with land development projects in California. The model calculates criteria pollutant emissions, including CO, PM₁₀, PM_{2.5} and the ozone precursors ROG and NO_x). CalEEMod output tables are provided in Appendix A of this report.

The following provides a summary of the assumptions entered into the model:

- Construction Phasing:
 - Site Preparation: 1/1/23 to 2/24/23, 40 days

- Grading: 2/25/23 to 6/16/23, 80 days
- Building Construction: 6/17/23 to 12/1/24, 380 days
- Architectural Coating: 6/1/24 to 12/27/24, 150 days
- Paving: 7/17/24 to 9/10/24, 40 days
- Operational year: 2024
- Passenger vehicle trips: During operations, Project would generate 1,788 daily passenger vehicle trips. Truck trips are assumed to be 100% primary trips and 100% commercial-work trip types, with an average trip length of 14.7 miles.
- Truck trips: During operations, Project would generate 781 daily truck trips. Truck trips are assumed to be 100% primary trips and 100% commercial-work trip types, with an average trip length of 40 miles.¹²

3.4 Construction Emissions

For analysis purposes, it is assumed that the Project will require a two-year buildout, concluding in 2024. The construction phase includes site preparation, grading, paving, building construction, and application of architectural coatings. For analysis purposes, it is assumed that building construction, paving, and architectural coating will occur in staggered, but overlapping phases.

Table 3-1 shows that the emissions generated by the Project construction activities will not exceed the MDAQMD thresholds for any criteria air pollutants. The data in Table 3-1 represents daily unmitigated emissions over the 2-year construction period, including winter and summer conditions, and assuming that standard dust control measures have been applied to the particulate matter emissions per MDAQMD Rule 403.

| Table 3-1 | | | | | | |
|--|-------|-----------------|--------|-----------------|------------------|-------------------|
| Maximum Daily Construction-Related Emissions Summary (pounds per day) | | | | | | |
| Construction Emissions | CO | NO _x | ROG | SO ₂ | PM ₁₀ | PM _{2.5} |
| Daily Maximum¹ | 69.43 | 36.28 | 122.62 | 0.20 | 21.15 | 11.33 |
| MDAQMD Threshold | 548 | 137 | 137 | 137 | 82 | 65 |
| Exceeds? | No | No | No | No | No | No |

¹ Average of winter and summer daily maximum emissions.

3.5 Operational Emissions

Operational Emissions refer to the ongoing emissions over the life of a project. They include area source emissions, emissions from energy demand (e.g. electricity) and mobile source emissions (e.g. vehicles).

¹² SCAQMD Draft WAIRE Technical Report (2020).

The proposed Project is estimated to generate 2,569 daily trips according to the ITE Land Use Code 157 for High-Cube Warehouse and High-Cube Cold Storage Warehouse¹³. The total 2,569 daily trips is comprised of 1,788 passenger car trips and 781 truck trips. For the purposes of analysis, it is assumed that the average length of truck trips will be 40 miles,¹⁴ and the average length of passenger car trip will be 14.7 miles.

As shown in Table 3-2, projected emissions during the Project’s operational life will not exceed the MDAQMD thresholds for any criteria air pollutants.

| <i>Operational Emissions</i> | CO | NO _x | ROG | SO ₂ | PM ₁₀ | PM _{2.5} |
|--|---------|-----------------|----------|-----------------|------------------|-------------------|
| <i>Daily Max. (Passenger Car)¹</i> | 43.811 | 5.397 | 36.49085 | 0.16465 | 20.2599 | 5.593 |
| <i>Daily Max. (Trucks)²</i> | 42.3898 | 121.92685 | 37.5786 | 0.68245 | 29.1742 | 9.36855 |
| <i>Daily Max. (Total)</i> | 86.20 | 127.32 | 74.07 | 0.85 | 49.43 | 14.96 |
| <i>MDAQMD Threshold</i> | 548 | 137 | 137 | 137 | 82 | 65 |
| <i>Exceeds?</i> | No | No | No | No | No | No |

3.6 Localized Impacts

The MDAQMD considers residences, schools, daycare centers, playground, and medical facilities as sensitive receptor land uses. According to the MDAQMD CEQA Guidelines, projects within a specified distance of a sensitive receptor must be evaluated using significance threshold criteria number 4:

(4) [A project is significant if it] Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1.

The threshold distances from sensitive receptors, as specified by the MDAQMD are as follows:

- Any industrial project within 1000 feet;
- A distribution center (40 or more trucks per day) within 1000 feet;
- A major transportation project (50,000 or more vehicle per day) within 1000 feet;
- A dry cleaner using perchloroethylene within 500 feet;
- A gasoline dispensing facility within 300 feet.¹⁵

¹³ Institute of Transportation Engineers (ITE), Trip Generation Manual, 11th Edition (2021).

¹⁴ SCAQMD Draft WAIRE Technical Report (2020).

¹⁵ MDAQMD California Environmental Quality Act (CEQA) and Federal Conformity Guidelines (February 2020).

The proposed Project is considered an industrial land use and proposes a distribution center with more than 40 truck trips projected per day. Properties adjacent to the Project site are either vacant, such as those to the south and west, or occupied by similar distribution facilities, such as those to the north and east.

The Project is located within the North Apple Valley Industrial Specific Plan area and is not within 1,000 feet of any sensitive receptor land uses. The nearest sensitive receptor land uses are the Fresenius Medical Care Distribution facility and the Victor Valley Community College, which are located approximately 2,700 feet west and northwest of the Project site, respectively.

Given that the Project is well beyond the specified distance from any sensitive receptor land uses, it does not need to be evaluated using significance criteria number 4, stated above.

3.7 Air Quality Management Plan Consistency

The Project is located within the MDAB, which is governed by the MDAQMD. MDAQMD is responsible for monitoring criteria air pollutant concentrations and establishing management policies for the MDAB. All development within the MDAB, including the proposed Project, is subject to all applicable air quality management plans that establish control strategies and guidance on regional emission reductions for air pollutants, including but not limited to ozone attainment plans and PM₁₀ reduction plans.

According to the MDAQMD CEQA Guidelines, a project is considered non-conforming if it conflicts with or may delay the implementation of any applicable attainment or maintenance plan. According to the guidelines, a project is considered conforming if it “complies with all proposed control measures that are not yet adopted from the applicable plan(s) and is consistent with the growth forecasts in the applicable plan(s).”

The MDAQMD works directly with the Southern California Association of Governments (SCAG), county transportation commissions, and local governments, and cooperates actively with all state and federal government agencies. SCAG adopted the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020 RTP/SCS) to comply with metropolitan planning organization (MPO) requirements under the Sustainable Communities and Climate Protection Act. The Growth Management chapter of the RTP/SCS forms the basis of land use and transportation controls of air quality plans. The 2020 SCAG RTP/SCS forecasts that by 2045, the Town of Apple Valley will have 37,400 households and a population 101,400.¹⁶ According to the Town’s 2009 General Plan, Apple Valley has the potential to accommodate 31,716 additional dwelling units and 96,829 additional residents in the Town boundaries through buildout of the General Plan.¹⁷

¹⁶ SCAG 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy, Demographics and Growth Forecast Technical Report, Jurisdiction-Level Growth Forecast.

¹⁷ Town of Apple Valley General Plan (2009), page II-2.

MDAQMD states that conformity with growth forecasts can be established by demonstrating that the project is consistent with the land use plan that was used to generate the growth forecast.¹⁸ The Project site is located in the planning area of the North Apple Valley Industrial Specific Plan (NAVISP). According to the NAVISP, the Project property is designated as Industrial – Specific Plan, which allows for “a broad range of clean manufacturing and warehousing uses... [including] warehouse distribution facilities.”¹⁹ The Project, which proposes the development of a warehouse distribution facility, is consistent with the land use and zoning designation established in the NAVISP, and will comply with the policies and regulations applicable to this designation. According to the MDAQMD CEQA Guidelines, given that the Project is consistent with the land use plan used to generate the growth forecast, it can be assumed that the Project is conforms with the growth forecast itself.

The MDAQMD CEQA Guidelines also state that a project is considered conforming if it complies with all proposed control measures. According to the Apple Valley General Plan, the Town is subject to the provisions of the MDAQMD Rule Book, which establishes policies and other measures designed to help the District reach federal and state attainment standards.²⁰ In accordance with the Towns policies, the proposed Project shall comply with the provisions of the MDAQMD Rule Book. These actions include the implementation of fugitive dust control measures (Rule 403) and the use of low VOC content architectural coatings (Rule 1113). Furthermore, the Project will be subject to Rule 201, which requires a permit from the Air Pollution Control Office prior to any construction activities, and Rule XIII, which requires preconstruction review of all new facilities to ensure they don’t interfere with the attainment and maintenance of ambient air quality standards. Compliance with the MDAQMD’s requirements will ensure that the Project does not conflict with applicable air quality plans.

3.8 Odors

Land uses which are likely to generate odors, other than agricultural operations which are exempted, include chemical plants, composting operations, dairies, fiberglass molding, landfills, refineries, rail yards, and wastewater treatment plants.²¹

The Project proposes the development of a warehouse/distribution facility, which will not include any industrial production or processing activity. While the proposed warehouse may produce some odors, it is not anticipated to produce any objectionable odors long term. While some odors may be generated on site during the construction process, their production will be short term. Any odors generated on site during construction or operations are expected to disperse quickly with distances.

¹⁸ MDAQMD California Environmental Quality Act (CEQA) and Federal Conformity Guidelines (February 2020).

¹⁹ North Apple Valley Industrial Specific Plan (2006), p. I-2.

²⁰ Town of Apple Valley General Plan (2009) Air Quality Element, p. III-70.

²¹ SCAQMD Guidance Document, Chapter 2: Air Quality Issues Regarding Land Use.

3.9 Cumulative Impacts

Given the dispersing nature of pollutant emissions and aggregate impacts from nearby jurisdictions, cumulative air quality is evaluated on a regional scale. As previously mentioned, the West Mojave Desert portion of the Mojave Desert Air Basin is a designated non-attainment region for PM₁₀ and ozone. Any development resulting in emissions of PM₁₀, ozone, or ozone precursors will, to some extent, contribute to the existing regional non-attainment.

The MDAQMD does not currently provide thresholds of significance for the cumulative emissions of multiple projects. A project's potential cumulative contributions can instead be analyzed using the criteria for project-specific impacts, assuming that if an individual development generates less than significant construction and operational emissions, then it would not generate a cumulatively considerable increase in non-attainment criteria pollutants.

The Project is located in a non-attainment area for PM₁₀ as well as ozone, for which precursors include CO, NO_x, and ROG. Emissions of PM₁₀, CO, NO_x and ROG related to the Project are projected to be below the MDAQMD thresholds for project-specific impacts, as shown in Tables 3-1 and 3-2. Standard best practices will be applied during construction, including dust control measures in accordance with MDAQMD Rule 403, as well as the use of low VOC content architectural coatings per MDAQMD Rule 1113. Therefore, while the Project will contribute to incremental increases in emissions, the impacts on regional PM₁₀ and ozone levels are not anticipated to be cumulatively considerable.

3.10 CEQA Determination

a) Conflict with or obstruct implementation of the applicable air quality plan?

The Project conforms with the growth forecasts used in the MDAQMD's plans, and will comply with all control measures proposed in the District's air quality plans. Based on this evidence, it can be concluded that the Project will not conflict with or obstruct implementation of the applicable air quality plan, and that impacts will therefore be less than significant.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Both the construction and operation of the proposed Project will result in emissions that are below the MDAQMD significance thresholds. The Project is not anticipated to make substantial contributions to an existing regional air quality violation. Overall, Project-specific impacts will be less than significant and Project-related impacts to non-attainment will not be cumulatively considerable.

c) Expose sensitive receptors to substantial pollutant concentrations?

Given that there are currently no sensitive receptors in the Project vicinity, the proposed development is not anticipated to expose sensitive receptors to substantial pollutant concentrations, and impacts can be considered less than significant.

Potential Health Impacts

According to the MDAQMD CEQA Guidelines, the District does not currently have a methodology to correlate the expected air quality emissions of a project to the likely health consequences of those emissions consistently and meaningfully.²² There are several factors that make it scientifically impossible with the technology available today to calculate the degree to which an individual's health would be impacted by exposure to various levels of criteria pollutant emissions:

- Differing medical histories mean that not all individuals would be affected equally. Some individuals may have medical pre-dispositions, and diet and exercise levels vary across a population.
- Due to the dispersing nature of pollutants, it is difficult to local and identify which individuals will be impacted, either directly or indirectly.
- There are currently no agreed upon methodologies or studies upon which to base assumptions, such as baseline health levels or emissions level-to-health risk ratios.

While the air district, and the field of study in general, do not have methodologies available to analyze the specific health consequences of a project's emissions, MDAQMD does recommend the use of tools such as CalEEMod for the purposes of project evaluation.

Given these limitations, the extent to which the proposed Project poses a health risk is uncertain, but unavoidable. However, the results of the CalEEMod projections indicate that the Project's emissions are below the MDAQMD thresholds, and the application of the MDAQMD sensitive receptor guidelines also indicate that the Project is not within the threshold distance. Based on these findings, it is therefore anticipated that the Project's impacts and associated health effects resulting from criteria pollutants will overall be less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The Project does not propose land uses likely to generate objectionable odors. While the proposed warehouse may produce some odors, it is not anticipated to produce any objectionable odors long term. There are no sensitive receptors in the immediate vicinity of the proposed Project, and adjacent sites are either similar distribution facilities or are vacant. There are therefore no land uses nearby that are likely to be impacted by any nuisance related to odors. As such, impacts from objectionable odors are expected to be less than significant.

²² Ibid.

3.11 Air Quality Mitigation Measures

Analysis of the Project's emissions and conformance with applicable air quality attainment and maintenance plans found that impacts are expected to be less than significant. Given that impacts will be less than significant, mitigation measures will not be necessary.

4 CLIMATE CHANGE SETTING

4.1 Introduction to Greenhouse Gases and Climate Change

Greenhouse gases, or GHG, are gases that absorb infrared radiation in the atmosphere. They are named after their role in the greenhouse effect, which refers to the trapping of heat in the atmosphere, near the earth's surface. Like the function of the walls of a greenhouse, as heat flows towards space from the earth's surface, GHGs absorb it and re-radiate it back towards the earth's surface.²³ Greenhouse gases play an essential role in insulating the earth and thereby maintaining climatic conditions amenable to life as we know it.²⁴

While GHGs are vital, maintaining balance in the system is also crucial. Over the last two centuries, human activity, such as the burning of fossil fuels, industrial activity, deforestation, and land use changes, began to intensify the natural greenhouse effect. While the combustion of fossil fuels produces and emits greenhouse gases into the atmosphere at levels elevated far beyond the natural production of these gases, the removal of trees and other vegetation reduce the earth's ability to sequester CO₂.²⁵ As the concentrations of these gases increase, so too does the amount of heat that they trap in the atmosphere. The resulting warming of the earth's climate is known as climate change.

4.1.1 Greenhouse Gases

According to the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6), atmospheric concentrations of CO₂ have increased by 50 percent since the industrial revolution and continue to increase at a rate of two parts per million each year. At this rate, the world will exceed 1.5°C above pre-industrial levels by the 2030s.²⁶ This level of global warming is associated with global mean sea level rise as well as regional climatic changes such as extreme temperatures, increases in the frequency and intensity of heavy precipitation in some regions, and increases in the intensity and frequency of droughts in some regions.²⁷

Greenhouse gas is a broad term referring to chemicals and substances found to cause changes in the atmosphere and the changing of the earth's climate. While these are not the only greenhouse gases, the California Air Resources Board is required to monitor and regulate seven GHGs: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), sulfur hexafluoride (SF₆), nitrogen trifluoride (NF₃), perfluorocarbons (PFCs), and hydrofluorocarbons (HFCs).²⁸ The latter four gases, all of

²³ United Nations Framework Convention on Climate Change – GHG Inventories.

²⁴ Town of Apple Valley 2019 Climate Action Plan Update.

²⁵ California Air Resources Board 2022 Scoping Plan, Environmental and Regulatory Setting.

²⁶ IPCC Climate Change 2021: The Physical Science Basis. Contribution of Working Group 1 to the Sixth Assessment Report of the IPCC (2021).

²⁷ IPCC Special Report: Global Warming of 1.5°C – Summary for Policymakers (2018).

²⁸ California Health and Safety Code § 38505 (g).

which contain fluorine, are sometimes collectively referred to as high global warming potential greenhouse gases (high-GWP gases).

Global warming potential (GWP) is a metric used to convert all GHGs into carbon dioxide equivalents. Carbon dioxide equivalents (CO₂e), and specifically metric tons of carbon dioxide equivalents (MTCO₂e), are units of measure used to compare emissions of various greenhouse gases. Carbon equivalent refers to the mass of carbon dioxide that would produce the same estimated radiative force as that of another greenhouse gas.²⁹ These metrics facilitate the development of multi-gas frameworks and policies which are crucial to action addressing climate change.

Table 4-1 describes the primary GHGs, the contribution of each gas to California’s total GHG emissions, and the main sources of emissions. The transportation sector is the largest emitter of GHGs in California, followed by the generation of electricity.³⁰

| Table 4-1 | | | |
|--|---|--|--|
| Sources of GHGs from Human Activities | | | |
| GHG | % of California’s 2020 GHG emissions¹ | Description | Sources² |
| Carbon Dioxide (CO ₂) | 80.2% | Odorless and colorless gas that is naturally emitted by the decomposition of dead organic matter, oceans, and volcanoes, as well as the respiration of plants, animals and fungus. CO ₂ is naturally sequestered in trees and other vegetation, oceans, soils, and ice caps. | Fossil fuel combustion for transportation, electricity, and industry. Other sources include burning solid waste, trees and other biological materials, as well specific chemical processes for the industrial production of materials such as cement. |
| Methane (CH ₄) | 10.5% ³ | A natural byproduct of biological processes in low oxygen environments such as bogs or at the roots of rice crops, as well as in cattle raising. CH ₄ absorbs more radiation than CO ₂ but has a lower atmospheric concentration. | Fugitive emissions from fossil fuel operations and transport. Off-gassing from agricultural practices and landfills. |

²⁹ California Air Resources Board.

³⁰ California Air Resources Board 2022 Scoping Plan Update, Environmental and Regulatory Setting.

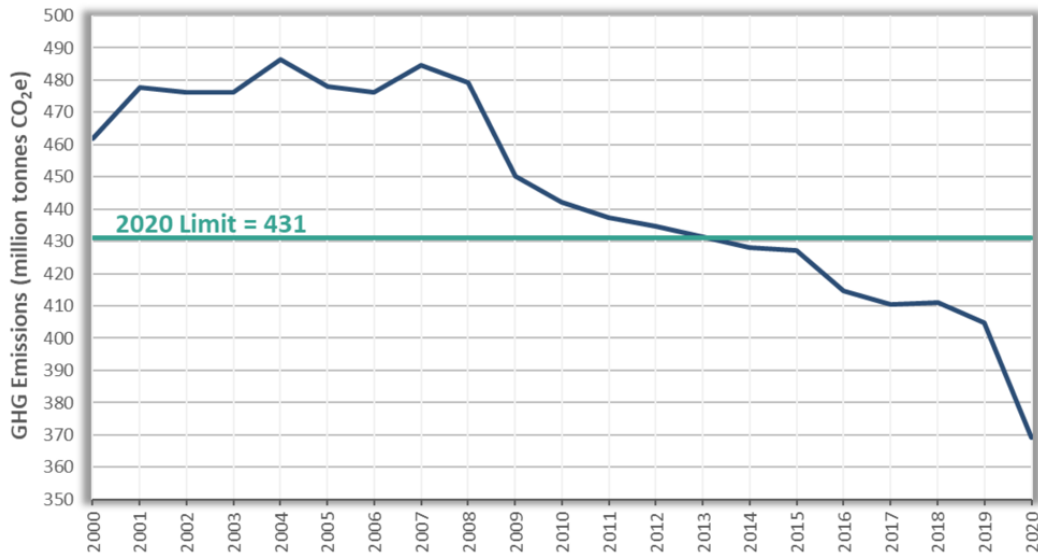
| Table 4-1 Sources of GHGs from Human Activities | | | |
|---|---|---|--|
| GHG | % of California's 2020 GHG emissions ¹ | Description | Sources ² |
| Nitrous Oxide (N ₂ O) | 3.5% ³ | Colloquially known as laughing gas, a colorless gas that can cause dizziness and euphoria in small doses. | Agricultural practices, particularly nitrogen-base fertilizers. Soil management, wastewater treatment, and solid waste from land use and industrial activity. |
| High-GWP gases | 5.8% ³ | Hydrofluorocarbons (HFCs): Synthetic gases that have the highest GWP of all GHGs, though they represent a small proportion of emissions. | PFCs and HFCs: Used as substitutes for chlorofluorocarbons (CFCs), ozone-depleting substances used in refrigeration, air conditioning, solvents, and aerosol products. |
| | | Perfluorocarbons (PFCs): Synthetic gases stable molecular structures and very long lifetimes in the atmosphere. | |
| | | Sulfur Hexafluoride (SF ₆): A synthetic, odorless, colorless, nontoxic and nonflammable gas. | |
| | | Nitrogen trifluoride (NF ₃): A synthetic, colorless, toxic gas with a musty odor. | NF ₃ : Semiconductor manufacturing. |
| ¹ Source: California Air Resources Board. ² Sources: California Air Resources Board 2022 Scoping Plan Update, Environmental and Regulatory Setting; U.S. EPA, Overview of Greenhouse Gases, https://www.epa.gov/ghgemissions/overview-greenhouse-gases (accessed October 2022). ³ In carbon dioxide equivalent units. | | | |

4.1.2 Climate Change in California

California is the second largest greenhouse gas producing state in the U.S., and the 16th largest contributor in the world.³¹ In 2020, emissions from GHG emitting activities in California were 369.2 MMTCO₂e, 35.3 MMTCO₂e below 2019 levels and 61.8 MMTCO₂e below the 2020 GHG Limit. While emissions data for 2020 is likely distorted by impacts of the 2020 COVID-19 pandemic, Figure 3 shows that the state’s success in reducing GHG emissions since 2000.

³¹ Town of Apple Valley 2019 Climate Action Plan.

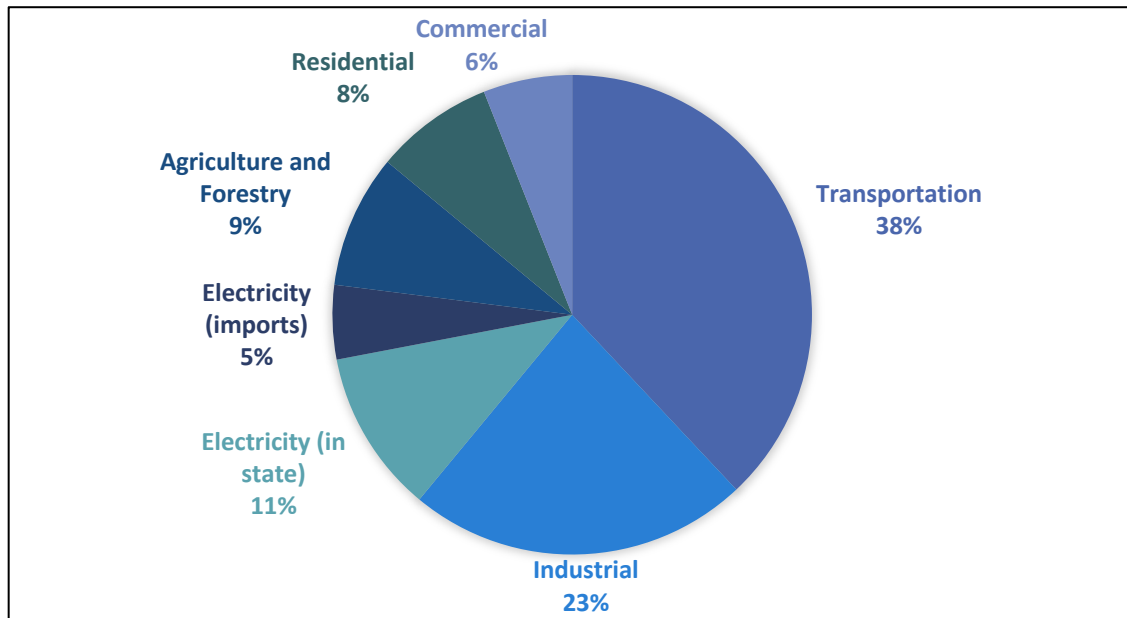
Figure 4-1: Annual Statewide GHG Emissions Compared to the 2020 GHG Limit



Source: California Greenhouse Gas 2000-2020 Emissions Trends and Indicators Report

Carbon dioxide is the primary greenhouse gas emitted in California. It accounted for 83% of total GHG emissions in the state in 2019.³² Transportation, particularly on-road travel, is the predominant source of carbon dioxide emissions in California, and as shown in Figure 4, accounted for 38% of MMT CO₂e in the state in 2020.³³

Figure 4-2: 2020 GHG emissions by economic sector (% of total California emissions)



Source: California Air Resources Board, Current California GHG Emission Inventory Data.

³² California Air Resources Board, 2022 Scoping Plan for Achieving Carbon Neutrality (November 2022), p.32.

³³ Ibid.

While research into the effects of climate change continues to evolve, such as determining the severity of impacts at specific temperature increases, current and emerging impacts are becoming increasingly evident in climatic events globally. The impacts of climate change are apparent in California in effects such as the increasing frequency and severity of wildfires, droughts, and extreme heat.

Extreme Heat: California’s daily maximum average temperature, an indicator of extreme temperature trends, is expected to increase to 4.4°F - 5.8°F by 2050 and 5.6°F - 8.8°F by 2100.³⁴ Many regions in the state broke their previous records for hottest measured temperature, and as a whole California had its hottest summer on record in 2021.³⁵ Heat waves are occurring more frequently and are enduring longer, resulting in deadly public health crises, particularly in cities, across the state. Like many other effects of climate change and air pollution, the adverse impacts of heat waves are felt most acutely by vulnerable communities, including people with sensitive health conditions and low-income populations. Higher temperatures can also exacerbate natural disasters such as storms, heat waves, floods, and droughts.³⁶

Drought: According to CARB, 87% of California was in severe drought, and 100% of California was in at least moderate drought, as of March 2022. While droughts are a natural phenomenon, it is estimated that human-caused climate change accounts for 19% of drought severity and 42% of the soil moisture deficit in the state since 2000. Severe and enduring drought is harmful to both wildlife and California’s agricultural industry, which is responsible for growing more than half of the country’s produce.³⁷ Combined, drought and extreme heat contribute to worsening wildfires in California.

Wildfires: Large wildfires are occurring more frequently in California: of the twenty largest wildfires recorded in the state’s history, almost half of them occurred in 2020 and 2021.³⁸ In addition to the damage and lives lost directly from these fires, wildfire impacts compound with other impacts and causes of climate change. For example, wildfires in California result in severe air quality hazards and substantially harm wildlife populations, and the fires also result in the further emission of massive quantities of CO₂ into the atmosphere.

Beyond these three hazards, climate change is expected to have wide ranging effects to California’s water and energy supply, sea level, and ecosystems. The California Energy Commission published a report on the impacts of climate change on the region encompassed by the Mojave and Sonoran Deserts.³⁹ It found that the region’s already extreme heat will increase

³⁴ California Air Resources Board, 2022 Scoping Plan for Achieving Carbon Neutrality (November 2022), p.5.

³⁵ Ibid., p.5.

³⁶ Town of Apple Valley Climate Action Plan (2019).

³⁷ California Air Resources Board, 2022 Scoping Plan for Achieving Carbon Neutrality (November 2022), p.4.

³⁸ Ibid.

³⁹ California Energy Commission, California’s Fourth Climate Change Assessment (2018) Inland Deserts Region Report.

by up to 8 to 14 degrees Fahrenheit by the end of the century, and that low and highly variable rainfall rates will be even more variable over coming decades. Increasingly extreme weather conditions will increase both the risk of flash flooding and wildfire. High temperatures and changing water supplies will exacerbate existing public health challenges and threaten vital industries such as agriculture and tourism.

4.1.3 GHGs and Health Impacts

While some greenhouse gases are hazardous to human health if encountered in high concentrations in confined areas, the public health impacts associated with GHGs are primarily those associated with their combined influence on climate change. Climate change and its effects are responsible for a wide range of potential hazards to public health, both direct and indirect. Direct health impacts resulting from climate change include heat-related illnesses, such as heat stroke, as well as injuries and death from natural disasters and extreme weather, such as wildfires. Climate change is also associated with indirect adverse health impacts, such as:

- Exacerbation of cardiovascular and respiratory disease due to increased smog and wildfire smoke.
- Increased rates and expanding geographic ranges of vector-borne and fungal diseases.
- Nutrition consequences associated with food insecurity worsened by decreased agricultural production.
- Mental trauma related to extreme weather disasters and other mental health impacts due to climate change-related unemployment, income loss, home loss, or displacement.⁴⁰

According to the California Air Resources Board, while climate change is one of the greatest public health threats of the twenty-first century, action to address climate change presents one of the most significant opportunities to improve public health, both globally and in California.⁴¹

4.2 Regulatory Setting

The following section outlines regulatory actions being taken to address climate change and reduce GHG emissions at the international, federal, state, and regional levels.

4.2.1 International

Intergovernmental Panel on Climate Change (IPCC)

The IPCC was founded in 1988 by the World Meteorological Organization (WMO) and the United Nations Environment Programme (UNEP). The organization is comprised of member governments of the WMO and UN. The mission of the IPCC is to provide scientific research to governments in order to inform climate policies.

⁴⁰ California Air Resources Board, Draft 2022 Scoping Plan Update (May 2022), p.127.

⁴¹ California Air Resources Board, Draft 2022 Scoping Plan Update Appendix G: Public Health.

United Nation’s Framework Convention on Climate Change (UNFCCC)

The UNFCCC was signed by 154 member nations in 1992, and now has 198 members. The Convention guides the global response to climate change with the objective of stabilizing greenhouse gas concentrations at a level that would mitigate the dangerous consequences of climate change. The UNFCCC defines climate change as: “a change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.”⁴²

The UNFCCC is the parent treaty of the Kyoto Protocol and Paris Agreement. While the UNFCCC sets targets for GHG concentrations, the 1997 Kyoto Protocol established binding targets for the 192 signatory parties. The Paris Agreement was adopted in 2015 as a legally binding international treaty signed by 196 parties. It aims to limit global warming to less than 2 degrees Celsius above pre-industrial levels by setting nationally determined contributions (NDCs) of increasingly ambitious climate action on 5-year cycles.⁴³

4.2.2 Federal

GHG Endangerment Finding

Under section 202(a) of the Clean Air Act, the EPA determined that GHGs threaten public health and welfare, and that GHG emissions from motor vehicles contribute to this threat. The two distinct findings, signed by the EPA Administrator in December 2009, found that:

1. The Endangerment Finding: Concentrations of six greenhouse gases (carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride) in atmosphere constitute air pollution and threaten the health and welfare of the public.
2. The Cause or Contribute Finding: Emissions from new motor vehicles and motor vehicle emissions contribute to GHG concentrations in the atmosphere and thus to climate change.⁴⁴

Mandatory Reporting of GHGs (40 CFR Parts 86, 87, 89 et al.)

The Mandatory Reporting of Greenhouses Gases rule requires reporting of greenhouse gas emissions from major fossil fuel suppliers, industrial gas suppliers, direct greenhouse gas emitters and manufacturers of heavy-duty and off-road vehicles and engines. The rule requires facilities that emit 25,000 tons per year (MT/yr) of GHGs or more to submit annual reports to the EPA.⁴⁵

⁴² United Nations Framework Convention on Climate Change, Article 1 (2).

⁴³ United Nations Climate Change, UNFCCC Process, The Paris Agreement <https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement> (Accessed October 2022).

⁴⁴ United States Environmental Protection Agency, EPA’s Endangerment Finding.

⁴⁵ Federal Register, Part II Environmental Protection Agency (October 30, 2009).

New Source Review (NSR)

The New Source Review Permitting program was established by Congress in 1977 as part of the Clean Air Act Amendments. The program requires new industrial facilities, or facilities making changes that will increase emissions significantly, to obtain permits limiting air emissions prior to construction. Permits are issued by state or local air pollution control agencies, and sometimes the EPA. The program requires that new sources meet the requirements for one or more of the following permits: Prevention of Significant Deterioration (PSD) permits, Nonattainment NSR permits, and minor source permits.

4.2.3 State

Assembly Bill 32 (AB 32)

The California Global Warming Solutions Act of 2006 (AB 32) required California to adopt regulations in order to reduce their GHG emissions to 1990 levels by 2020. This represents reductions of approximately 15 percent below the emissions projected in a “business as usual” scenario. The California Air Resources Board (CARB) prepared a Scoping Plan (2008) and Update (2014) to establish the state’s strategy to meet the targets set forth by AB 32. Moving forward, AB 32 requires California to maintain and continue reductions beyond 2020 and continues to require CARB to update the Scoping Plan every 5 years.

Senate Bill 32 (SB 32)

The California Global Warming Solutions Act of 2016: emissions limit (SB 32) requires California to adopt regulations to reduce GHG emissions to 40% of 1990 levels by 2030.

CARB 2022 Scoping Plan Update

The 2022 Scoping Plan provides CARB’s update to the 2017 Plan. Pursuant to SB 32, the plan sets forth the state’s plan to stay on track towards reducing GHG emissions by at least 40% below 1990 levels by 2030. Additionally, the 2022 Plan Update establishes a path for the state to achieve carbon neutrality by 2045 through technologically feasible, cost-effective means.⁴⁶

Senate Bill 375 (SB 375)

SB 375 directs CARB to set regional GHG emissions reduction targets. The intent of the bill is to ensure local and regional governments are involved in efforts to meet the reduction targets set forth by AB 32 and SB 32. Alignment between state and local emission reduction efforts is important particularly because regional transportation planning and housing needs allocation, factors that have a major impact on GHG emissions in California, are overseen by local elected officials. The bill encourages an integrated approach by requiring the inclusion of Sustainable Communities Strategies in regional transportation plans, synchronizing the General Plan Housing Elements update schedule to align with regional transportation planning cycles, and adding CEQA incentives for projects that align with regional plans and reduce GHG emissions.

⁴⁶ California Air Resources Board, 2022 Scoping Plan for Achieving Carbon Neutrality (November 2022).

Clean Energy and Pollution Reduction Act of 2015 (SB 350)

SB 350 establishes a state renewable energy procurement goal, increasing from 33% by 2020 to 50% by 2030. It is implemented by the California Energy Commission in conjunction with state agencies including the Public Utilities Commission and CARB. The bill also requires large utilities companies to prepare integrated resource plans (IRPs) establishing how the utilities will meet customer demands while reducing GHG emissions and increasing the use of clean energy sources.

4.2.3.2 California Regulations and Building Codes

Title 24 of the California Code of Regulations

The California Building Standards Code covers a broad set of regulations regarding the construction, maintenance, fire safety, and accessibility of buildings, as well as the integration of energy conservation practices and green design.

Adopted in 1978, Part 6 of Title 24 establishes energy efficiency standards for residential and non-residential buildings constructed in the state. With the aim of continuing to reduce energy demand and consumption, Part 6 is updated as needed to reflect new energy efficiency technologies and methodologies.

Part 11 of Title 24 of the CCR The California Green Building Standards Code, or CALGreen, established mandatory minimum environmental performance standards addressing energy and water efficiency, material and water conservation, and environmental quality. CALGreen took effect in January 2022 and applies to all new commercial, low-rise residential, state-owned buildings, schools, and hospitals constructed in California. CALGreen was developed to help California meet the emissions reductions targets set forth in AB 32 and SB 32.

CARB Refrigerant Management Program

Administered by the California Air Resources Board, the Refrigerant Management Program requires periodic leak inspections, prompt leak repairs, as well as reporting and maintenance of on-site service records, for all facilities with refrigeration systems containing more than 50 pounds of high-global warming potential (GWP) refrigerant. CARB adopted the program in 2009 as part of AB 32.

Senate Bill 97 (SB 97)

SB 97 recognized the need for state agencies to analyze GHG emissions as part of the California Environmental Quality Act process. The bill updated CEQA to require the Office of Planning and Research (OPR) to develop guidelines for the feasible mitigation of GHG emissions, of the effects of GHG emissions, to be transmitted to the California Air Resources Board for approval. The adopted guidelines apply to effects associated with transportation and energy consumption.

4.2.4 Local

Air Quality Management Districts

According to §15064.7(b) of the CEQA Guidelines, for a threshold of significance to be used as part of a legal agency’s environmental review process, it must be adopted by ordinance, resolution, rule, or regulation. While the Project is located within the MDAQMD jurisdiction, the MDAQMD threshold for greenhouse gas emissions has not been formally adopted. For analysis purposes, Project impacts will be assessed against GHG thresholds from both MDAQMD and *South Coast Air Quality Management District (SCAQMD)*. The SCAQMD is immediately adjacent to the MDAQMD jurisdictional area and has a formally adopted absolute threshold for stationary sources of 10,000 MTCO_{2e} for industrial projects. Furthermore, the SCAQMD quantitative thresholds for GHG emissions are more conservative than the threshold currently in use by MDAQMD. Therefore, in order ensure that analysis of the Project’s impacts related to GHG is sufficient under CEQA, emissions will be evaluated against both the MDAQMD and SCAQMD thresholds.

The GHG emission significance thresholds for the MDAQMD and SCAQMD are discussed, below:

MDAQMD Significance Thresholds

According to the MDAQMD, any project is significant if it triggers or exceeds the most appropriate evaluation criteria. The District will clarify upon request which threshold is most appropriate for a given project; in general, the emissions comparison (criteria number 1) is sufficient:

1. Generates total emissions (direct and indirect) in excess of the MDAQMD thresholds
2. Generates a violation of any ambient air quality standard when added to the local background;
3. Does not conform with the applicable attainment or maintenance plan(s) 1;
4. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1.⁴⁷

| Table 4-2 | |
|---|--------------------------------------|
| MDAQMD Significance Thresholds | |
| Criteria Pollutant | Annual Threshold (short tons) |
| Greenhouse Gases (CO _{2e}) | 100,000 |
| Source: MDAQMD CEQA Guidelines (February 2020). | |

SCAQMD GHG Significance Thresholds

On December 5, 2008, the SCAQMD formally adopted a greenhouse gas significance threshold for stationary sources of 10,000 MTCO_{2e} per year for industrial projects and 3,000 MTCO_{2e} per year for residential and commercial projects where SCAQMD is the lead agency (SCAQMD Resolution No. 08-31). This threshold was adopted based upon a December 2008 staff report and

⁴⁷ MDAQMD California Environmental Quality Act (CEQA) and Federal Conformity Guidelines (February 2020).

draft interim guidance document that also recommended a threshold for all projects using a tiered approach.⁴⁸

It was recommended by SCAQMD staff that a project’s greenhouse gas emissions would be considered significant if it could not comply with at least one of the following “tiered” tests:

- Tier 1: Is there an applicable exemption?
- Tier 2: Is the project compliant with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32?
- Tier 3: Is the project below an absolute threshold (10,000 MTCO₂e/yr for industrial projects; 3,000 MTCO₂e/yr for residential and commercial projects)?
- Tier 4: Is the project below a (yet to be set) performance threshold?
- Tier 5: Would the project achieve a screening level with off-site mitigation?

San Bernardino County Regional Greenhouse Gas Reduction Plan

The 2021 San Bernardino County Regional Greenhouse Gas Reduction Plan identifies state GHG reduction measures applicable to participating jurisdictions, as well as local measures selected by each jurisdiction that could reduce future GHG emissions within jurisdictional boundaries. The reduction plan has individual sections for each jurisdiction that detail the jurisdiction’s 2016 GHG emissions inventory, 2030 GHG emissions forecast, reduction goal, jurisdiction-selected (or consultant-identified) GHG reduction measures, and related General Plan policies or other ongoing programs in the jurisdiction. The purpose of the plan is to provide participating jurisdictions with relevant information to complete and adopt their own Climate Action Plan (CAP).

Town of Apple Valley Climate Action Plan 2019 Update

Apple Valley’s Climate Action Plan (CAP) Update is a comprehensive GHG emissions reduction strategy, representing the third update to the Town’s CAP. Apple Valley originally adopted the CAP in 2010, with the intent of revisions every 3 years in response to policy changes, technological advances, and to build on the Town’s successes in emissions reduction.

Pursuant to Senate Bill 32 (SB 32), the CAP Update aims to ensure that the Town continues to meet its GHG emissions reductions targets of 15% below 2005 levels by 2020 and 40% below 2005 levels by 2030.⁴⁹ The CAP Update also provides guidance to meet VMT reduction targets established by the California Air Resources Board (CARB): 7% below projected VMT levels in 2030 to meet 40% below VMT levels in 1990. As shown in Table 4-3, the Town met its emissions target of 15% below the 2005 baseline in 2020. With implementation of the measures provided in the CAP, the Town expects to be on track to meet its emissions target in 2030.

⁴⁸ SCAQMD, Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans (December 2008).

⁴⁹ Town of Apple Valley 2019 Climate Action Plan Update (May 2021).

| Table 4-3 | | |
|--|----------------------------|-------------------|
| Apple Valley CAP Emissions Reduction Targets | | |
| Target/Scenario | Town-wide Emissions | Per Capita |
| 2005 Baseline | 748,912 | 11.75 |
| 2020: 15% Below Baseline Target | 636,575 | 8.59 |
| 2020: 2019 GHG Inventory | 597,681 | 8.06 |
| 2030: 40% Below Baseline Target | 449,347 | 5.32 |
| 2030: 40% Below, Forecast BAU ¹ | 533,103 | 6.31 |
| 2030: 40% Below, Forecast w/CAP Measures | 410,922 | 4.86 |
| Source: Town of Apple Valley 2019 Climate Action Plan Update, Table 1. | | |
| ¹ BAU = Business as usual. | | |

5 PROJECT GREENHOUSE GAS IMPACT

5.1 Introduction

The following section analyzes the greenhouse gas emission impacts associated with buildout of the proposed Project.

5.2 Standards of Significance

According to the 2022 CEQA Guidelines (*Appendix G: Environmental Checklist*), the project would have a significant effect on greenhouse gases if the Proposed Project were to:

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

5.3 Methodology

The Project proposes the development of a 1,207,544 square foot warehouse distribution center on a 77 ± acre site. It is assumed, for analysis purposes, that 85% of the building will be used for dry warehousing, and 15% for cold storage. The Project will potentially emit greenhouse gases during both the construction and operational phases. In particular, the Project, as a warehouse distribution center, will generate greenhouse gas emissions through distribution truck trips to and from the facility.

The proposed Project will generate GHG emissions during both construction and operational phases. As previously discussed under Air Quality Impacts, the California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to project air quality and greenhouse gas emissions, which bases GHG projections on land use factors. The following parameters and assumptions were inputted to the model:

- Construction Phasing:
 - Site Preparation: 1/1/23 to 2/24/23, 40 days
 - Grading: 2/25/23 to 6/16/23, 80 days
 - Building Construction: 6/17/23 to 12/1/24, 380 days
 - Architectural Coating: 6/1/24 to 12/27/24, 150 days
 - Paving: 7/17/24 to 9/10/24, 40 days
- Operational year: 2024
- Passenger vehicle trips: During operations, Project would generate 1,788 daily passenger vehicle trips. Passenger vehicle trips are assumed to be 100% primary trips and 100% commercial-work trip types, with an average trip length of 14.7 miles.

- Truck trips: During operations, Project would generate 781 daily truck trips. Truck trips are assumed to be 100% primary trips and 100% commercial-work trip types, with an average trip length of 40 miles.⁵⁰

5.4 Construction Emissions

Construction activities will result in short-term GHG emissions associated with the operation of construction equipment, vehicle emissions from construction employee commutes, material hauling, and other ground disturbing activities. According to CalEEMod, the Project is projected to generate 3,287.36 metric tons of CO₂e over the two-year construction period.

There are currently no construction related GHG emissions thresholds for projects of this nature. As such, construction-related GHG emissions were amortized over a 30-year period, added to annual operational emissions, and compared to the MDAQMD threshold, in order to determine if construction emissions will result in a cumulatively considerable impact. Table 5-1 shows the combined amortized construction emissions and operational emissions.

5.5 Operational Emissions

Once the Project reaches the operational phase, five categories of emissions will contribute to its annual GHG emissions either directly or indirectly: area emissions (e.g. pavement and architectural coating off-gassing), energy use, mobile source emissions, solid waste disposal, and water use. As stated above, GHG emissions from construction of the Project were amortized over a 30-year period and added to the operational emissions total. The below table shows a summary of the total annual construction and operational GHG emissions projected for buildout of the Project.

| Table 5-1 | |
|--|---------------------------|
| Projected GHG Emissions Summary (Metric Tons) | |
| Phase | CO ₂ e (MT/YR) |
| Construction | |
| 2023 | 1,353.46 |
| 2024 | 1,933.90 |
| Construction Total | 3,287.36 |
| Operational | |
| Area | 0.05 |
| Energy | 2,362.91 |
| Mobile | 13,697.33 |
| Waste | 570.84 |
| Water | 1,028.26 |
| Construction: 30-Year Amortized ¹ | 109.58 |
| Total Operational | 17,768.97 |

⁵⁰ SCAQMD Draft WAIRE Technical Report (2020).

| Table 5-1 | |
|--|--------------------------------|
| Projected GHG Emissions Summary (Metric Tons) | |
| Phase | CO₂e (MT/YR) |
| MDAQMD Annual Threshold | 100,000 |
| Exceeds? | No |
| ¹ Buildout Construction GHG emissions were amortized over 30-years then added to buildout operational GHG emissions. $3,287.36 / 30 = 109.58$ | |

5.6 CAP Consistency

According to the CAP, the Town aims to meet the GHG emissions reduction target of 40% below 2005 levels by 2030. Based on growth forecasts in the SCAG 2020-2045 Regional Transportation Plan/SCS, the CAP forecasts that the Town will have a population of 84,535 in 2030. To meet the 40% below baseline target, the Town-wide GHG emissions in 2030 would need to be 449,347 MTCO₂e, or 5.32 per capita.

As demonstrated in Table 5-1, above, the Project is expected to generate 17,768.97 metric tons of CO₂e per year. Given the existing demand for jobs in the Town, it is likely that all of the jobs created by the Project would be filled by existing residents of Apple Valley. It is therefore assumed that the Town’s 2030 population, including buildout of the Project, would be 84,535 as analyzed in the CAP.

Based on a projected 2030 population of 84,535, Table 5-2 shows that the Town would have to achieve 5.32 tons per capita to meet the 2030 targets. The table also shows that with implementation of the CAP measures, the Town expects to go beyond the established emissions target, reducing forecasted emissions to 410,922 MTCO₂e per year or 4.86 tons per capita. The 2030 emissions forecast with CAP measures accounts for community emissions, including industrial projects. It is therefore likely that the Project’s estimated annual emissions of 17,768.97 MTCO₂e would already be covered by the 2030 emissions forecast. However, assuming an industrial development like the proposed Project was not accounted for in the CAP 2030 forecast, and for conservative analysis, the Project’s emissions will be added to the existing forecast. As shown in Table 5-2, the total annual emissions from the Project and existing 2030 forecast would be 428,690.97 MTCO₂e, or 5.07 tons per capita. Both the total and per capita emissions meet the CAP target for 2030 of 40% below the 2005 baseline. The Town-wide emissions in 2030, including the Project, would therefore meet the CAP greenhouse gas emissions reduction target.

| Table 5-2 | | | |
|---|-------------------------------------|-------------------|-------------------|
| Project emissions and CAP reduction target | | | |
| Target/Scenario | Forecast (MTCO₂e) | Population | Per Capita |
| CAP 2030 forecast w/CAP measures | 410,922.00 | 84,535 | 4.86 |
| Project emissions (per year) | 17,768.97 | 84,535 | -- |
| Total | 428,690.97 | 84,535 | 5.07 |
| CAP 2030 target (40% below baseline) | 449,347.00 ¹ | 84,535 | 5.32 |
| Exceeds? | | | No |

¹ Forecasted town-wide emissions for 2030.

In order to ensure that the Project’s GHG emissions are reduced to the greatest extent possible, the Project will be subject to applicable reduction measures from the CAP. The Project’s consistency with applicable reduction measures is shown in the following table.

| Table 5-3 | |
|---|--|
| Project consistency with CAP reduction measures | |
| Reduction Measure | Consistency |
| CO-4: Establish an employee carpooling program, including incentives (preferred parking, flex time incentives, etc.) for participating employees. | Consistent: The Project will establish an employee carpooling program, including incentives for participating employees. (Mitigation Measure 1) |
| CO-5: Provide employees with free or discounted public transit passes. | Consistent: The Project will provide employees with free or discounted public transit passes. (Mitigation Measure 2) |
| ND-6: For projects within the North Apple Valley Industrial Specific Plan, develop employee housing within one mile of the industrial project. | Consistent: The area adjacent to the Project site, on the western side of Dale Evans Parkway, is designated for Medium Density Residential (R-M). Development of these sites would provide housing within one mile of the Project site. |
| ND-12: Building and site plan designs shall ensure that the project energy efficiencies meet applicable California Title 24 Energy Efficiency Standards. | Consistent: The Project design will comply with all requirements in the California Building Code, including the Title 24 Energy Efficiency Standards. |

Source: Town of Apple Valley 2019 Climate Action Plan Update

5.7 Cumulative Impacts

Due to their dispersing nature and aggregate regional impacts, greenhouse gases are analyzed in terms of their cumulative impacts. The above analysis considered the potential cumulative

impacts of the Project on greenhouse gas emissions in the Mojave Desert Air Basin using significance criteria from both the Mojave Desert Air Quality Management District and the South Coast Air Quality Management District. The analysis also considered emissions in relation to local and state greenhouse gas reduction plans and targets.

Overall, while the Project will contribute to cumulative greenhouse gas impacts, conformance to the MDAQMD significance thresholds as well as with the emissions reductions targets in the Town of Apple Valley's 2019 CAP Update, per SCAQMD Tier 2, indicate that impacts would be less than significant. The Project's impacts are thus not anticipated to be cumulatively considerable.

5.8 CEQA Determination

a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.

According to the MDAQMD CEQA Guidelines, a project's impact is considered significant if it generates total emissions (direct or indirect) that exceed the applicable threshold. As shown in Table 5-1, the Project's annual CO₂e emissions will not exceed the MDAQMD's significance threshold of 100,000 metric tons of CO₂e per year. However, because the MDAQMD threshold has not been formally adopted, and is thus not considered valid per §15064.7(b) of the CEQA Guidelines, the Project's GHG emissions will also be analyzed using the SCAQMD significance threshold.

SCAQMD:

The SCAQMD provides a series of "tiered" tests, based on staff recommendations, to determine whether a project's greenhouse gas emissions would be considered significant. In order to be considered less than significant, a project should comply with one of the following tiers:

- Tier 1: Is there an applicable exemption?
- Tier 2: Is the project compliant with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32?
- Tier 3: Is the project below an absolute threshold (10,000 MTCO₂e/yr for industrial projects; 3,000 MTCO₂e/yr for residential and commercial projects)?
- Tier 4: Is the project below a (yet to be set) performance threshold?
- Tier 5: Would the project achieve a screening level with off-site mitigation?

Tier 1: The Project is not eligible for an exemption. This tier does not apply.

Tier 2: Tier 2 is applicable. The Project is subject to the Town of Apple Valley's 2019 Climate Action Plan (CAP) Update, a comprehensive GHG emissions reduction plan. Pursuant to SB 32 and AB 32, the CAP aims to ensure that the Town continues to meet its GHG emissions reductions

targets of 15% below 2005 levels by 2020 and 40% below 2005 levels by 2030.⁵¹ The Town has regularly updated its CAP every three years. The 2019 CAP is the third update to the original document, which underwent CEQA review and was adopted in 2010. Given that the Town's CAP is regularly updated, formally adopted, and consistent with the goals of AB 32, under SCAQMD's Tier 2 it provides suitable targets against which to evaluate the Project's GHG emissions.

Tier 3: This tier does not apply to the Project. Tier 3 provides the following quantitative thresholds for analyzing of CO₂e emissions:

- 10,000 MTCO₂e per year for industrial projects (stationary sources only)
- 3,000 MTCO₂e per year for residential and commercial

While the proposed development is an industrial project, it will be used as a warehouse and distribution center, not as a manufacturing plant or other heavy industrial uses. As a result, most of its GHG emissions are expected to be produced by mobile sources, particularly from heavy duty trucks making regional distribution trips. It would therefore not be appropriate to analyze the Project's annual emissions of 17,768.97 MTCO₂e against the SCAQMD threshold of 10,000 MTCO₂e per year for industrial projects because this applies to stationary sources only.

The 3,000 MTCO₂e threshold is also not suitable for the Project because it is intended for residential and commercial uses, neither of which are proposed for the Project. The Project proposes a 1,207,544 square foot warehouse, of which approximately 95% will be used for cold storage and high cube warehousing purposes, and approximately 5% will be supporting office uses.

Tier 4: There are no applicable performance thresholds against which to evaluate the Project. This tier does not apply.

Tier 5: There are no applicable off-site mitigation measures. This tier does not apply.

Based on the tiered tests provided by SCAQMD, and given that only Tier 2 applies to the Project, the following analysis will consider whether the Project is compliant the Apple Valley 2019 Climate Action Plan. According to Tier 2, if the Project is determined to be compliant with the applicable greenhouse gas reduction plan, then impacts related to the greenhouse gas emissions resulting from that Project should be considered less than significant.

With the addition of the Project's emissions, as shown in Table 5-1, Town-wide CO₂e emissions would still meet the 2030 reduction target. Implementation of the measures provided in the CAP and applicable state regulations would ensure that Project's GHG emissions are further reduced to the greatest extent practicable.

⁵¹ Town of Apple Valley 2019 Climate Action Plan Update (May 2021).

Given that the Project complies with the Town’s CAP GHG reductions target for 2030, then, pursuant to the SCAQMD Tier 2 test, it would also be compliant with a greenhouse gas reduction plan that is consistent with the goals of AB 32. Overall, given that the Project is both below the absolute CO₂e emissions threshold provided by MDAQMD and compliant with the SCAQMD Tier 2 test, it can be concluded that impacts would be less than significant.

b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The California Air Resources Board (CARB) 2022 Scoping Plan puts forward the bold target of achieving carbon neutrality in state-wide emissions by 2045 or earlier. This plan builds on the efforts of the three previous scoping plans, which established goals to meet 1990 levels by 2020 and 40 percent below 1990 levels by 2030, in compliance with Senate Bill 32 (SB 32). The 2022 Scoping Plan Update aims to further reduce anthropogenic emissions in California to 85 percent below 1990 levels by 2045.⁵² According to Apple Valley’s General Plan (2009), at buildout the Town was estimated to contribute approximately 0.756% of the total California emissions limit for 2020, as established by the CARB.⁵³

The Town’s 2019 Climate Action Plan Update (CAP) provides Apple Valley’s comprehensive strategy to meet the SB 32 emission targets by reducing the Town’s emissions 15% below 2005 levels by 2020 and 40% below 2005 levels by 2030.⁵⁴ According to the MDAQMD CEQA Guidelines, a project is deemed to conform with an emissions plan if it is consistent with the existing land use plan. As described under the Air Quality discussion, the Project is located in the North Apple Valley Industrial Specific Plan (NAVISP) area, on a site designated and zoned as Industrial – Specific Plan. This designation permits clean industrial uses such as warehouse distribution facilities. The Project proposes a warehouse distribution facility that aligns with the permitted uses for the site. It also complies with all development standards for the I-SP zone, including maximum building coverage, maximum building height, and water efficient landscape requirements pursuant to the Town’s Water Conservation/Landscaping Regulations.⁵⁵

Given that the Apple Valley Climate Action Plan (CAP) is based on the growth projected from buildout of the Town’s General Plan, the Project’s conformance with the NAVISP implies compliance with the CAP. Furthermore, while the provisions of the CAP are mostly directed towards regulating emissions at the Town-wide scale, some policies are applicable to individual projects. For example, policy ND-12 in the CAP states that building and site plans must ensure that the project will meet the applicable Title 24 Energy Efficiency Standards. The Title 24 standards include performance standards for space heating and cooling, water heater design improvements, integration of solar control in building designs, use of efficient lighting, and application of the Town’s landscaping guidelines. The Project will be required to comply with all

⁵² California Air Resources Board 2022 Scoping Plan Update.

⁵³ Apple Valley General Plan (2009) EIR, p. III-29.

⁵⁴ Town of Apple Valley 2019 Climate Action Plan Update.

⁵⁵ Town of Apple Valley Municipal Code Chapter 9.75 – Water Conservation/Landscaping Regulations.

applicable energy efficiency standards as provided in Title 24 and as enforced by the Town. Site plan review by the Town prior to the issuance of development permits will ensure that these standards are met.

The Project, including all components of construction and operation, will also be subject to the current MDAQMD Rules as applicable to greenhouse gases. Compliance will be ensured through MDAQMD Rule 201, which requires preconstruction plan review prior to issuance of a construction permit from the Air Pollution Control Officer.

In conclusion, conformance with the land use plan and implementation of applicable policies in the CAP ensure that the Project will not conflict with applicable plans, policies or regulations adopted for the purpose of reducing the emissions of greenhouse gases. Project impacts are therefore anticipated to be less than significant.

5.9 GHG Mitigation Measures

Consistent with and to reinforce existing Climate Action Plan reduction measures, the following mitigation measures shall apply to the Project:

1. Establish an employee carpooling program, including incentives (preferred parking, flex time incentives, etc.) for participating employees.
2. Provide employees with free or discounted public transit passes.

6 PROJECT ALTERNATIVES

6.1 Alternative A – No project, no development

Alternative A proposes no development on the subject property. It would therefore generate no air pollution and would make no contributions to the net increase of any criteria pollutants or greenhouse gases. There would be no impacts.

6.2 Alternative B – 100% high cube

Alternative B proposes the development of a 1,207,544 square foot warehouse to be used for unrefrigerated warehousing. It would potentially emit criteria air pollutants during construction and operations.

6.2.1 Air Quality

a) Conflict with or obstruct implementation of the applicable air quality plan?

Like the proposed Project, the warehouse development proposed under Alternative B is consistent with the Industrial – Specific Plan zoned assigned to the property in the North Apple Valley Industrial Specific Plan. It can thus be assumed that Alternative B conforms with the growth forecast used in the MDAQMD’s air quality plans and would not conflict with or obstruct implementation of the applicable air quality plan

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Alternative B would release criteria air pollutants during its construction and operations, as shown in Tables 6-1 and 6-2, respectively.

| Table 6-1 Alternative B – Maximum Daily Construction-Related Emissions Summary (pounds per day) | | | | | | |
|--|-----------|-----------------------|------------|-----------------------|------------------------|-------------------------|
| Construction Emissions | CO | NO_x | ROG | SO₂ | PM₁₀ | PM_{2.5} |
| Daily Maximum¹ | 69.43 | 36.28 | 121.47 | 0.20 | 15.04 | 5.32 |
| MDAQMD Threshold | 548 | 137 | 137 | 137 | 82 | 65 |
| Exceeds? | No | No | No | No | No | No |

¹ Average of winter and summer daily maximum emissions.
Note: PM₁₀ and PM_{2.5} emissions reflect standard dust control measures per MDAQMD Rule 403.

The above table shows that the emissions generated by the construction of Alternative B would not exceed the MDAQMD thresholds for any criteria air pollutants. The data in Table 6-1 represents daily unmitigated emissions over the 2-year construction period, including winter and summer conditions, and assuming that standard dust control measures have been applied to the particulate matter emissions per MDAQMD Rule 403. Given that MDAQMD’s thresholds for criteria air pollutants will not be exceeded during unmitigated construction activities, impacts are anticipated to be less than significant.

| Table 6-2 Alternative B – Maximum Daily Operational-Related Emissions Summary (pounds per day) | | | | | | |
|---|-----------|-----------------|-----------|-----------------|------------------|-------------------|
| <i>Operational Emissions</i> | CO | NO _x | ROG | SO ₂ | PM ₁₀ | PM _{2.5} |
| <i>Daily Max. (Passenger Car)¹</i> | 42.0477 | 2.9933 | 36.2397 | 0.1511 | 20.2074 | 5.4443 |
| <i>Daily Max. (Trucks)¹</i> | 40.3578 | 119.5079 | 37.3125 | 0.66795 | 28.9903 | 9.1847 |
| <i>Daily Max. (Total)</i> | 82.41 | 122.51 | 73.55 | 0.82 | 49.20 | 14.63 |
| <i>MDAQMD Threshold</i> | 548 | 137 | 137 | 137 | 82 | 65 |
| <i>Exceeds?</i> | No | No | No | No | No | No |

¹ Average of winter and summer daily maximum emissions.

As shown in Table 6-2, projected emissions during the operation of Alternative B would not exceed the MDAQMD thresholds for any criteria air pollutants. Impacts related to operational emissions can thus be assumed to be less than significant.

In addition, given that both the construction and operation of Alternative B would not result in emissions exceeding the MDAQMD significance threshold, it can be assumed that impacts to non-attainment related to the proposed development would not be cumulatively considerable.

c) Expose sensitive receptors to substantial pollutant concentrations?

Like the proposed Project, Alternative B is well beyond the specified distance from any sensitive receptor land uses, it does not need to be evaluated using MDAQD significance criteria number 4. The proposed development under Alternative B is thus not anticipated to expose sensitive receptors to substantial pollutant concentrations, and impacts can be considered less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The warehouse distribution facilities proposed by the Project and Alternatives B would not include any industrial production or processing activity. While the proposed warehouse may produce some odors, it is not anticipated to produce any objectionable odors long term. As discussed under (c) above, there are no sensitive receptors in the immediate vicinity of the subject property, and adjacent sites are either similar distribution facilities or are vacant. Any odors generated on site during construction or operations are expected to be dispersed below detectable levels quickly with increasing distance from the construction site. Therefore, any odors temporarily produced during construction of the development would disperse to undetectable levels before reaching any sensitive receptors. There are nearby land uses that would be likely to be impacted by any nuisance related to odors. Given these facts, Alternative B would have less than significant impacts related to emissions such as odors.

6.2.2 GHG

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.

The development proposed in Alternative B would generate greenhouse gas emissions during both construction and operations. The 1,207,544 square foot warehouse proposed in Alternative B would be used entirely for unrefrigerated dry warehousing purposes, and thus would be expected to generate lower emissions than the proposed Project.

Construction of Alternative B would result in short-term GHG emissions from activities such as the operation of construction equipment, vehicle emissions from construction worker commutes, and material hauling. As shown in Table 6-3, Alternative B is projected to generate 3,287.36 metric tons per year of CO₂e over the two-year construction period.

Operation of Alternative B would generate GHG emissions from area (e.g. off-gassing of architectural coatings), energy, mobile, waste, and water sources. In terms of mobile sources during operations, Alternative B would generate 1,788 daily passenger vehicle trips, per the VMT analysis prepared for the Project.⁵⁶ For analysis purposes, passenger vehicle trips are assumed to be 100% primary trips and 100% commercial-work trip types, with an average weekday trip length of 14.7 miles. Alternative B would also generate 781 daily truck trips during operations. Truck trips are assumed to be 100% primary trips and 100% commercial-work trip types, with an average trip length of 40 miles.⁵⁷

Since there are currently no GHG emissions thresholds for construction projects of this nature, emissions related to the construction of Alternative B were amortized over a 30-year period and

⁵⁶ Lafayette Street Logistics Facility VMT Analysis prepared by Urban Crossroads (November 2022).

⁵⁷ SCAQMD Draft WAIRE Technical Report (2020).

added to annual operational emissions. Combined, construction and operation of Alternative B is projected to emit 16,084.873 metric tons of CO₂e per year.

**Table 6-3
Alternative B – GHG Emission Summary**

| Phase | CO ₂ e (MT/YR) ¹ |
|--|--|
| Construction | |
| 2023 | 1,353.46 |
| 2024 | 1,933.90 |
| Construction Total | 3,287.36 |
| Operational | |
| Area | 0.05 |
| Energy | 668.00 |
| Mobile | 13,708.15 |
| Waste | 570.84 |
| Water | 1028.26 |
| Construction: 30-Year Amortized ² | 106.58 |
| Total Operational | 16,084.87 |
| MDAQMD Annual Threshold | 100,000.00 |
| Exceeds? | No |
| ¹ Metric tons per year of carbon dioxide equivalent. | |
| ² Buildout Construction GHG emissions were amortized over 30-years then added to buildout operational GHG emissions. 3,287.36 / 30 = 109.5787 | |

According to the MDAQMD CEQA Guidelines, a project is considered significant if it generates total emissions (direct or indirect) in excess of the applicable threshold. The combined 16,084.873 metric tons of CO₂e per year projected to result from the development’s operational emissions and amortized construction emissions would not exceed the MDAQMD threshold for greenhouse gas emissions. However, because the MDAQMD has not been formally adopted, as explained in Section 5, the GHG emissions resulting from Alternative B will also be analyzed using the SCAQMD significance threshold.

SCAQMD provides a series of “tiered” tests to determine whether a project’s greenhouse gas emissions would be considered significant. In order to be considered less than significant, a project should comply with one of the following tiers:

- Tier 1: Is there an applicable exemption?
- Tier 2: Is the project compliant with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32?
- Tier 3: Is the project below an absolute threshold (10,000 MTCO₂e/yr for industrial projects; 3,000 MTCO₂e/yr for residential and commercial projects)?
- Tier 4: Is the project below a (yet to be set) performance threshold?
- Tier 5: Would the project achieve a screening level with off-site mitigation?

As explained in Section 5, Tier 1, 3, 4, and 5 are not applicable to the Project or the Alternatives. In particular, Tier 3 does not apply because the 10,000 MTCO₂e/yr threshold for industrial projects only applies to stationary sources, and a large portion of the Project and Alternative emissions would be from mobile emissions. Tier 2 does apply to the Project and Alternatives because the Town of Apple Valley’s 2019 CAP Update is formally adopted, regularly updated, and provides GHG emissions reduction targets consistent with the goals of AB 32. Therefore, in accordance with SCAQMD Tier 2, the following analysis will analyze whether Alternative B is compliant with the Town’s 2019 CAP.

As shown in Table 6-3, Alternative B would generate 16,084.87 MTCO₂e per year at buildout. In order for the Town to meet its 2030 emissions target of 40% below the baseline, it would need to meet a per capita emissions target of 5.32. As is also shown in the below table, the Town expected to go beyond its target with implementation of the measures in the CAP, potentially reaching per capita emissions of 4.86. As explained for the proposed Project, it is likely that the CAP forecasts also account for development like the Project or Alternatives. However, to make a more conservative analysis, the emissions of Alternative B will be added to the CAP 2030 forecast emissions. Table 6-4 shows that the total annual emissions from both Alternative B and the existing 2030 forecast would be 427,006.87 or 5.05 tons per capita. Both the total and per capita emissions meet the CAP target for 2030 of 40% below the 2005 baseline. The Town-wide emissions in 2030, including Alternative B, would therefore meet the CAP greenhouse gas emissions reduction target.

| Target/Scenario | Forecast (MTCO ₂ e) | Population | Per Capita |
|---|--------------------------------|---------------|-------------|
| CAP 2030 forecast w/CAP measures | 410,922.00 | 84,535 | 4.86 |
| Alternative B emissions (per year) | 16,084.87 | 84,535 | -- |
| Total | 427,006.87 | 84,535 | 5.05 |
| CAP 2030 target (40% below baseline) | 449,347.00 ¹ | 84,535 | 5.32 |
| Exceeds? | | | No |
| ¹ Forecasted town-wide emissions for 2030. | | | |

Like the proposed Project, compliance with reduction measures in the CAP, including establishing an employee carpool program (GHG Mitigation Measure 1) and providing employees with free or discounted public transit passes (GHG Mitigation Measure 2) would ensure that the emissions resulting from Alternative B would be reduced as much as possible. Furthermore, state regulations that have been adopted since the 2019 CAP Update, or that may be adopted prior to the 2030 CAP target deadline, will likely further reduce emissions from both Alternative B and the Town as a whole.

Given that Alternative B complies with the Town’s CAP GHG reductions target for 2030, then, pursuant to the SCAQMD Tier 2 test, it would also be compliant with a greenhouse gas reduction plan that is consistent with the goals of AB 32. Overall, given that Alternative B is both below the absolute CO₂e emissions threshold provided by MDAQMD and compliant with the SCAQMD Tier 2 test, it can be concluded that impacts would be less than significant.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

As stated in the MDAQMD CEQA Guidelines, a project is deemed to conform with an emission reduction plan if it is consistent with the existing land use plan. The subject property is located in the North Apple Valley Industrial Specific Plan (NAVISP) area on a site designated and zones as Industrial – Specific Plan (I-SP). The warehouse development proposed in both Alternative B and the Project conforms with the clean industrial uses permitted in this zone. Alternative B would therefore comply with applicable plans, policies, and regulations adopted for the purpose of greenhouse gas reductions. The proposed development would also comply with all development standards for the I-SP zone, including maximum building coverage, maximum building height, and water efficient landscape requirements. Given that the Apple Valley Climate Action Plan (CAP) is based on the General Plan buildout growth projection, conformance of the proposed development with the NAVISP would indicate compliance with the CAP.

Alternative B would also comply with all applicable provisions of the CAP, including policies that mandate compliance with the Title 24 Energy Efficiency Standards. Site plan review by the Town prior to the issuance of development permits would ensure that applicable greenhouse gas reduction standards are met. Alternative B would also be subject to all applicable MDAQMD Rules, and would be required to submit plans for review by the Air Pollution Control Officer.

Overall, conformance with the land use plan and implementation of applicable policies in the CAP would ensure that the development proposed in Alternative B would not conflict with plans, policies, or regulations adopted for the purpose of reducing greenhouse gas emissions. Impacts would be less than significant

6.3 Alternative C – 900,000 sq ft, 100% high cube

6.3.1 Air Quality

a) Conflict with or obstruct implementation of the applicable air quality plan?

Alternative C proposes the development of a 900,000 square foot unrefrigerated warehouse distribution facility. For the same reasons provided for Alternative B, above, Alternative C would not conflict with or obstruct the implementation of the applicable air quality plan. The development proposed under Alternative C aligns with the growth forecasts provided by the SCAG and used in MDAQMD’s air quality plans. The development plans would be subject to review by both the Town of Apple Valley and the MDAQMD to ensure that it is compliant with the MDAQMD rule book. Impacts would be less than significant.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

The development proposed under Alternative C would release criteria air pollutants during its construction and operations, as shown in Tables 6-5 and 6-6, respectively.

| Table 6-5 | | | | | | |
|---|-----------|-----------------|-----------|-----------------|------------------|-------------------|
| Alternative C – Maximum Daily Construction-Related Emissions Summary | | | | | | |
| (pounds per day) | | | | | | |
| Construction Emissions | CO | NO _x | ROG | SO ₂ | PM ₁₀ | PM _{2.5} |
| Daily Maximum¹ | 60.21 | 34.57 | 91.24 | 0.17 | 11.56 | 5.32 |
| MDAQMD Threshold | 548 | 137 | 137 | 137 | 82 | 65 |
| Exceeds? | No | No | No | No | No | No |

¹ Average of winter and summer daily maximum emissions.
Note: PM₁₀ and PM_{2.5} emissions reflect standard dust control measures per MDAQMD Rule 403.

The above table shows that the emissions generated by the construction of Alternative C would not exceed the MDAQMD thresholds for any criteria air pollutants. The data in Table 6-5 represents daily unmitigated emissions over the 2-year construction period, including winter and summer conditions, and assuming that standard dust control measures have been applied to the particulate matter emissions per MDAQMD Rule 403. Given that MDAQMD’s thresholds for criteria air pollutants will not be exceeded during unmitigated construction activities, impacts are anticipated to be less than significant.

| Table 6-6 | | | | | | |
|--|-----------|-----------------|-----------|-----------------|------------------|-------------------|
| Alternative C – Maximum Daily Operational-Related Emissions Summary | | | | | | |
| (pounds per day) | | | | | | |
| Operational Emissions | CO | NO _x | ROG | SO ₂ | PM ₁₀ | PM _{2.5} |
| Daily Max. (Passenger Car)¹ | 31.33945 | 2.23095 | 27.0116 | 0.11265 | 15.0609 | 4.0577 |
| Daily Max. (Trucks)² | 29.80645 | 88.2485 | 27.7878 | 0.49325 | 21.4066 | 6.7823 |
| Daily Max. (Total) | 61.15 | 90.48 | 54.80 | 0.61 | 36.47 | 10.84 |
| MDAQMD Threshold | 548 | 137 | 137 | 137 | 82 | 65 |
| Exceeds? | No | No | No | No | No | No |

¹ Average of winter and summer daily maximum emissions.

As shown in Table 6-6, projected emissions during the operation of Alternative C would not exceed the MDAQMD thresholds for any criteria air pollutants. Impacts related to operational emissions can thus be assumed to be less than significant.

In addition, given that both the construction and operation of Alternative C would not result in emissions exceeding the MDAQMD significance threshold, it can be assumed that impacts to non-attainment related to the proposed development would not be cumulatively considerable.

c) Expose sensitive receptors to substantial pollutant concentrations?

Like the proposed Project, Alternative C is well beyond the specified distance from any sensitive receptor land uses, it does not need to be evaluated using MDAQD significance criteria number 4. The proposed development under Alternative C is thus not anticipated to expose sensitive receptors to substantial pollutant concentrations, and impacts can be considered less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The warehouse distribution facilities proposed by the Project and Alternatives C would not include any industrial production or processing activity. While the proposed warehouse may produce some odors, it is not anticipated to produce any objectionable odors long term. As discussed under (c) above, there are no sensitive receptors in the immediate vicinity of the subject property, and adjacent sites are either similar distribution facilities or are vacant. Any odors generated on site during construction or operations are expected to be dispersed below detectable levels quickly with increasing distance from the construction site. Therefore, any odors temporarily produced during construction of the development would disperse to undetectable levels before reaching any sensitive receptors. There are nearby land uses that would be likely to be impacted by any nuisance related to odors. Given these facts, Alternative B would have less than significant impacts related to emissions such as odors.

6.3.2 GHG

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.

Alternative C proposes the development of a 900,000 square foot development that would be used entirely for unrefrigerated dry warehousing. It would generate greenhouse gas emissions during construction and operations. By reducing the building footprint and involving no refrigerated cold storage in the warehouse, Alternative C would be expected to generate lower emissions than the Project and Alternative B.

Construction of Alternative C would result in short-term GHG emissions from activities such as the operation of construction equipment, vehicle emissions from construction worker commutes, and material hauling. As shown in Table 6-7, Alternative C is projected to generate 2,656.86 metric tons per year of CO₂e over the two-year construction period.

Like the proposed Project and Alternative B, operation of Alternative C would generate GHG emissions from area (e.g. off-gassing of architectural coatings), energy, mobile, waste, and water sources. Due to the proposed reduction in building footprint, Alternative C is estimated to generate fewer mobile source emissions during operations. The 900,000 square foot warehouse is projected to 1,340 daily passenger vehicle trips. For analysis purposes, passenger vehicle trips are assumed to be 100% primary trips and 100% commercial-work trip types, with an average weekday trip length of 14.7 miles. Alternative C is also projected to generate 576 daily truck trips during operations. Truck trips are assumed to be 100% primary trips and 100% commercial-work trip types, with an average trip length of 40 miles.⁵⁸

Since there are currently no GHG emissions thresholds for construction projects of this nature, emissions related to the construction of Alternative C were amortized over a 30-year period and added to annual operational emissions. Combined, construction and operation of Alternative C is projected to emit 11,913.37 metric tons of CO₂e per year.

**Table 6-7
Alternative C – GHG Emission Summary**

| Phase | CO ₂ e (MT/YR) |
|--|---------------------------|
| Construction | |
| 2023 | 1,127.11 |
| 2024 | 1,529.75 |
| Construction Total | 2,656.86 |
| Operational | |
| Area | 0.04 |
| Energy | 498.04 |
| Mobile | 10,134.89 |
| Waste | 425.45 |
| Water | 766.38 |
| Construction: 30-Year Amortized ¹ | 88.56 |
| Total Operational | 11,913.37 |
| MDAQMD Annual Threshold | 100,000.00 |
| Exceeds? | No |
| ¹ Buildout Construction GHG emissions were amortized over 30-years then added to buildout operational GHG emissions. 2,656.86 / 30 = 88.562 | |

⁵⁸ SCAQMD Draft WAIRE Technical Report (2020).

According to the MDAQMD CEQA Guidelines, a project is considered significant if it generates total emissions (direct or indirect) in excess of the applicable threshold. The combined 11,913.37 metric tons of CO₂e per year projected to result from the development’s operational emissions and amortized construction emissions are below the MDAQMD annual GHG threshold. However, for the reasons explained for Alternative B above, Alternative C will also be analyzed using the SCAQMD Tier 2 threshold.

According to Tier 2, a project’s impacts are considered less than significant if the project is compliance with a greenhouse gas reduction plan that is, at a minimum, consistent with the goals of AB 32. Alternative C will be analyzed for compliance with the Town of Apple Valley’s 2019 Climate Action Plan Update (CAP), which establishes a Town-wide emissions target of 40% below 2005 levels by 2030.

If the Town meets the 2030 emissions target, it would have a per capita emissions rate of 5.32 based on a population of 84,535. Assuming that the jobs produced by Alternative C would be filled by existing residents of the Town, the total emissions from the CAP 2030 forecast and the emissions from Alternative C would have a per capita rate of 5.00. Per capita emissions of 5.00 would meet the CAP target of 5.32 MTCO₂e per capita by 2030.

| Table 6-8 | | | |
|---|-------------------------------------|-------------------|-------------------|
| Alternative C - GHG Emissions and CAP reduction target | | | |
| Target/Scenario | Forecast (MTCO₂e) | Population | Per Capita |
| CAP 2030 forecast w/CAP measures | 410,922.00 | 84,535 | 4.86 |
| Project emissions (per year) | 11,913.37 | 84,535 | -- |
| Total | 422,835.37 | 84,535 | 5.00 |
| CAP 2030 target (40% below baseline) | 449,347.00 ¹ | 84,535 | 5.32 |
| Exceeds? | | | No |
| ¹ Forecasted town-wide emissions for 2030. | | | |

The above analysis found that the total CO₂e resulting from the annual Town-wide emissions forecasted for 2030 and the annual emissions from Alternative C would meet the CAP target. Therefore, pursuant to SCAQMD Tier 2, Alternative C would have less than significant impacts related to GHG emissions.

Like the proposed Project, compliance with reduction measures in the CAP, including establishing an employee carpool program (GHG Mitigation Measure 1) and providing employees with free or discounted public transit passes (GHG Mitigation Measure 2) would ensure that the emissions resulting from Alternative C would be reduced as much as possible. Impacts would be less than significant.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

Alternative C would not conflict with applicable plans, policies, or regulations for greenhouse gas reduction for the same reasons enumerated above. Similar to the proposed Project and Alternative B, the warehousing uses proposed under Alternative C would be consistent with the existing Industrial-Specific Plan designation provided in the NAVISP and the General Plan. Given that the Apple Valley Climate Action Plan (CAP) is based on the General Plan buildout growth projection, conformance of the proposed development with the NAVISP would indicate compliance with the CAP.

Alternative C would also be required to implement all applicable policies in the Town's Climate Action Plan and in the MDAQMD Rule Book, and would be subject to the Title 24 Energy Efficiency Standards. Given that Alternative C would comply with all applicable local, regional, and state policies and regulations pertaining to greenhouse gases, impacts would be less than significant.

7 REFERENCES

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8 APPENDICES

“The Development at Dale Evans and Lafayette Outputs,” CalEEMod, Version 2020.4.0, prepared by Terra Nova Planning & Research, Inc., November 9, 2022.

CalEEMod Runs

Truck Only Run

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Refrigerated Warehouse-No Rail | 181.13 | 1000sqft | 23.55 | 181,132.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 1,026.41 | 1000sqft | 40.59 | 1,026,412.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | Operational Year | 2024 | | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse, 181,132 sq ft of which is high-cube cold storage. 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 781 total truck trips. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|---------------------------|-------------------|--------------|--------------|
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 181,130.00 | 181,132.00 |
| tblLandUse | LandUseSquareFeet | 1,026,410.00 | 1,026,412.00 |
| tblLandUse | LotAcreage | 4.16 | 23.55 |
| tblLandUse | LotAcreage | 23.56 | 40.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | ST_TR | 2.12 | 0.68 |
| tblVehicleTrips | ST_TR | 1.74 | 0.64 |
| tblVehicleTrips | SU_TR | 2.12 | 0.68 |
| tblVehicleTrips | SU_TR | 1.74 | 0.64 |
| tblVehicleTrips | WD_TR | 2.12 | 0.68 |
| tblVehicleTrips | WD_TR | 1.74 | 0.64 |

2.0 Emissions Summary

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.5440 | 34.5707 | 53.0684 | 0.1682 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 17,055.1276 | 17,055.1276 | 1.9494 | 0.9819 | 17,368.5523 |
| 2024 | 122.7424 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.2867 | 15.0382 | 3.6887 | 1.2047 | 4.8934 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.5756 | 0.9904 | 21,333.2247 |
| Maximum | 122.7424 | 35.9415 | 73.2645 | 0.2085 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.9494 | 0.9904 | 21,333.2247 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.5440 | 34.5707 | 53.0684 | 0.1682 | 11.6057 | 1.4256 | 12.4433 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 17,055.1276 | 17,055.1276 | 1.9494 | 0.9819 | 17,368.5523 |
| 2024 | 122.7424 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.2867 | 15.0382 | 3.6887 | 1.2047 | 4.8934 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.5756 | 0.9904 | 21,333.2247 |
| Maximum | 122.7424 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.4256 | 15.0382 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.9494 | 0.9904 | 21,333.2247 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| Mobile | 3.4260 | 115.7359 | 39.5591 | 0.6638 | 27.4117 | 1.5277 | 28.9394 | 7.6728 | 1.4610 | 9.1338 | | 69,700.8406 | 69,700.8406 | 0.2518 | 9.2764 | 72,471.5136 |
| Total | 37.6326 | 118.8094 | 42.4183 | 0.6822 | 27.4117 | 1.7620 | 29.1738 | 7.6728 | 1.6954 | 9.3682 | | 73,386.5484 | 73,386.5484 | 0.3240 | 9.3440 | 76,179.1594 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| Mobile | 3.4260 | 115.7359 | 39.5591 | 0.6638 | 27.4117 | 1.5277 | 28.9394 | 7.6728 | 1.4610 | 9.1338 | | 69,700.8406 | 69,700.8406 | 0.2518 | 9.2764 | 72,471.5136 |
| Total | 37.6326 | 118.8094 | 42.4183 | 0.6822 | 27.4117 | 1.7620 | 29.1738 | 7.6728 | 1.6954 | 9.3682 | | 73,386.5484 | 73,386.5484 | 0.3240 | 9.3440 | 76,179.1594 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4455 | 9.5911 | 5.0998 | 0.0540 | 1.8343 | 0.0938 | 1.9281 | 0.5284 | 0.0897 | 0.6180 | | 5,674.8562 | 5,674.8562 | 0.0266 | 0.7737 | 5,906.0853 |
| Worker | 3.5258 | 2.1092 | 31.7246 | 0.0873 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 8,825.0615 | 8,825.0615 | 0.1978 | 0.2082 | 8,892.0609 |
| Total | 3.9713 | 11.7003 | 36.8244 | 0.1413 | 11.6057 | 0.1379 | 11.7436 | 3.1196 | 0.1303 | 3.2499 | | 14,499.9177 | 14,499.9177 | 0.2244 | 0.9819 | 14,798.1463 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4455 | 9.5911 | 5.0998 | 0.0540 | 1.8343 | 0.0938 | 1.9281 | 0.5284 | 0.0897 | 0.6180 | | 5,674.8562 | 5,674.8562 | 0.0266 | 0.7737 | 5,906.0853 |
| Worker | 3.5258 | 2.1092 | 31.7246 | 0.0873 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 8,825.0615 | 8,825.0615 | 0.1978 | 0.2082 | 8,892.0609 |
| Total | 3.9713 | 11.7003 | 36.8244 | 0.1413 | 11.6057 | 0.1379 | 11.7436 | 3.1196 | 0.1303 | 3.2499 | | 14,499.9177 | 14,499.9177 | 0.2244 | 0.9819 | 14,798.1463 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4305 | 9.4847 | 4.9272 | 0.0528 | 1.8343 | 0.0932 | 1.9276 | 0.5284 | 0.0892 | 0.6175 | | 5,551.5397 | 5,551.5397 | 0.0254 | 0.7560 | 5,777.4523 |
| Worker | 3.2647 | 1.8610 | 29.3000 | 0.0844 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 8,529.3560 | 8,529.3560 | 0.1772 | 0.1922 | 8,591.0600 |
| Total | 3.6952 | 11.3456 | 34.2273 | 0.1372 | 11.6057 | 0.1348 | 11.7405 | 3.1196 | 0.1275 | 3.2471 | | 14,080.8957 | 14,080.8957 | 0.2025 | 0.9482 | 14,368.5123 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4305 | 9.4847 | 4.9272 | 0.0528 | 1.8343 | 0.0932 | 1.9276 | 0.5284 | 0.0892 | 0.6175 | | 5,551.5397 | 5,551.5397 | 0.0254 | 0.7560 | 5,777.4523 |
| Worker | 3.2647 | 1.8610 | 29.3000 | 0.0844 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 8,529.3560 | 8,529.3560 | 0.1772 | 0.1922 | 8,591.0600 |
| Total | 3.6952 | 11.3456 | 34.2273 | 0.1372 | 11.6057 | 0.1348 | 11.7405 | 3.1196 | 0.1275 | 3.2471 | | 14,080.8957 | 14,080.8957 | 0.2025 | 0.9482 | 14,368.5123 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 114.7852 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 114.9660 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |
| Total | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 114.7852 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 114.9660 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |
| Total | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.4260 | 115.7359 | 39.5591 | 0.6638 | 27.4117 | 1.5277 | 28.9394 | 7.6728 | 1.4610 | 9.1338 | | 69,700.8406 | 69,700.8406 | 0.2518 | 9.2764 | 72,471.5136 |
| Unmitigated | 3.4260 | 115.7359 | 39.5591 | 0.6638 | 27.4117 | 1.5277 | 28.9394 | 7.6728 | 1.4610 | 9.1338 | | 69,700.8406 | 69,700.8406 | 0.2518 | 9.2764 | 72,471.5136 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Refrigerated Warehouse-No Rail | 123.17 | 123.17 | 123.17 | 1,793,332 | 1,793,332 |
| Unrefrigerated Warehouse-No Rail | 656.90 | 656.90 | 656.90 | 9,564,499 | 9,564,499 |
| Total | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Refrigerated Warehouse-No | 40.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Refrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| NaturalGas Unmitigated | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 25671.1 | 0.2769 | 2.5168 | 2.1141 | 0.0151 | | 0.1913 | 0.1913 | | 0.1913 | 0.1913 | | 3,020.1316 | 3,020.1316 | 0.0579 | 0.0554 | 3,038.0788 |
| Unrefrigerated Warehouse-No Rail | 5652.3 | 0.0610 | 0.5542 | 0.4655 | 3.3200e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 664.9760 | 664.9760 | 0.0128 | 0.0122 | 668.9277 |
| Total | | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 25.6711 | 0.2769 | 2.5168 | 2.1141 | 0.0151 | | 0.1913 | 0.1913 | | 0.1913 | 0.1913 | | 3,020.1316 | 3,020.1316 | 0.0579 | 0.0554 | 3,038.0788 |
| Unrefrigerated Warehouse-No Rail | 5.6523 | 0.0610 | 0.5542 | 0.4655 | 3.3200e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 664.9760 | 664.9760 | 0.0128 | 0.0122 | 668.9277 |
| Total | | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

6.0 Area Detail

6.1 Mitigation Measures Area

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Unmitigated | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

7.0 Water Detail

7.1 Mitigation Measures Water

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Refrigerated Warehouse-No Rail | 181.13 | 1000sqft | 23.55 | 181,132.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 1,026.41 | 1000sqft | 40.59 | 1,026,412.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | Operational Year | 2024 | | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse, 181,132 sq ft of which is high-cube cold storage. 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 781 total truck trips. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|---------------------------|-------------------|--------------|--------------|
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 181,130.00 | 181,132.00 |
| tblLandUse | LandUseSquareFeet | 1,026,410.00 | 1,026,412.00 |
| tblLandUse | LotAcreage | 4.16 | 23.55 |
| tblLandUse | LotAcreage | 23.56 | 40.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | ST_TR | 2.12 | 0.68 |
| tblVehicleTrips | ST_TR | 1.74 | 0.64 |
| tblVehicleTrips | SU_TR | 2.12 | 0.68 |
| tblVehicleTrips | SU_TR | 1.74 | 0.64 |
| tblVehicleTrips | WD_TR | 2.12 | 0.68 |
| tblVehicleTrips | WD_TR | 1.74 | 0.64 |

2.0 Emissions Summary

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.2963 | 34.5722 | 46.2393 | 0.1586 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 16,082.17 42 | 16,082.17 42 | 1.9493 | 0.9887 | 16,397.48 87 |
| 2024 | 122.4784 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.2870 | 15.0386 | 3.6887 | 1.2050 | 4.8937 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.5713 | 0.9973 | 20,187.97 86 |
| Maximum | 122.4784 | 36.6190 | 65.5855 | 0.1971 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.9493 | 0.9973 | 20,187.97 86 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.2963 | 34.5722 | 46.2393 | 0.1586 | 11.6057 | 1.4256 | 12.4436 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 16,082.17 42 | 16,082.17 42 | 1.9493 | 0.9887 | 16,397.48 87 |
| 2024 | 122.4784 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.2870 | 15.0386 | 3.6887 | 1.2050 | 4.8937 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.5713 | 0.9973 | 20,187.97 86 |
| Maximum | 122.4784 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.4256 | 15.0386 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.9493 | 0.9973 | 20,187.97 86 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 24.62 | 0.00 | 24.07 | 43.39 | 0.00 | 37.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| Mobile | 3.3180 | 121.9709 | 39.5021 | 0.6642 | 27.4117 | 1.5285 | 28.9402 | 7.6728 | 1.4618 | 9.1345 | | 69,748.8661 | 69,748.8661 | 0.2446 | 9.2999 | 72,526.3426 |
| Total | 37.5246 | 125.0443 | 42.3613 | 0.6827 | 27.4117 | 1.7628 | 29.1746 | 7.6728 | 1.6961 | 9.3689 | | 73,434.5740 | 73,434.5740 | 0.3168 | 9.3674 | 76,233.9883 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| Mobile | 3.3180 | 121.9709 | 39.5021 | 0.6642 | 27.4117 | 1.5285 | 28.9402 | 7.6728 | 1.4618 | 9.1345 | | 69,748.8661 | 69,748.8661 | 0.2446 | 9.2999 | 72,526.3426 |
| Total | 37.5246 | 125.0443 | 42.3613 | 0.6827 | 27.4117 | 1.7628 | 29.1746 | 7.6728 | 1.6961 | 9.3689 | | 73,434.5740 | 73,434.5740 | 0.3168 | 9.3674 | 76,233.9883 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4150 | 10.2159 | 5.2824 | 0.0542 | 1.8343 | 0.0941 | 1.9284 | 0.5284 | 0.0900 | 0.6183 | | 5,692.2889 | 5,692.2889 | 0.0253 | 0.7774 | 5,924.5792 |
| Worker | 3.3086 | 2.1657 | 24.7130 | 0.0775 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 7,834.6754 | 7,834.6754 | 0.1942 | 0.2113 | 7,902.5035 |
| Total | 3.7236 | 12.3816 | 29.9953 | 0.1317 | 11.6057 | 0.1382 | 11.7439 | 3.1196 | 0.1306 | 3.2502 | | 13,526.9642 | 13,526.9642 | 0.2195 | 0.9887 | 13,827.0826 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4150 | 10.2159 | 5.2824 | 0.0542 | 1.8343 | 0.0941 | 1.9284 | 0.5284 | 0.0900 | 0.6183 | | 5,692.2889 | 5,692.2889 | 0.0253 | 0.7774 | 5,924.5792 |
| Worker | 3.3086 | 2.1657 | 24.7130 | 0.0775 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 7,834.6754 | 7,834.6754 | 0.1942 | 0.2113 | 7,902.5035 |
| Total | 3.7236 | 12.3816 | 29.9953 | 0.1317 | 11.6057 | 0.1382 | 11.7439 | 3.1196 | 0.1306 | 3.2502 | | 13,526.9642 | 13,526.9642 | 0.2195 | 0.9887 | 13,827.0826 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4001 | 10.1023 | 5.1104 | 0.0530 | 1.8343 | 0.0936 | 1.9279 | 0.5284 | 0.0895 | 0.6178 | | 5,568.7742 | 5,568.7742 | 0.0241 | 0.7595 | 5,795.7102 |
| Worker | 3.0731 | 1.9101 | 22.8535 | 0.0749 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 7,574.5879 | 7,574.5879 | 0.1746 | 0.1950 | 7,637.0616 |
| Total | 3.4733 | 12.0124 | 27.9640 | 0.1279 | 11.6057 | 0.1351 | 11.7408 | 3.1196 | 0.1278 | 3.2474 | | 13,143.3621 | 13,143.3621 | 0.1988 | 0.9545 | 13,432.7717 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4001 | 10.1023 | 5.1104 | 0.0530 | 1.8343 | 0.0936 | 1.9279 | 0.5284 | 0.0895 | 0.6178 | | 5,568.7742 | 5,568.7742 | 0.0241 | 0.7595 | 5,795.7102 |
| Worker | 3.0731 | 1.9101 | 22.8535 | 0.0749 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 7,574.5879 | 7,574.5879 | 0.1746 | 0.1950 | 7,637.0616 |
| Total | 3.4733 | 12.0124 | 27.9640 | 0.1279 | 11.6057 | 0.1351 | 11.7408 | 3.1196 | 0.1278 | 3.2474 | | 13,143.3621 | 13,143.3621 | 0.1988 | 0.9545 | 13,432.7717 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 114.7852 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 114.9660 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |
| Total | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 114.7852 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 114.9660 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |
| Total | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.3180 | 121.9709 | 39.5021 | 0.6642 | 27.4117 | 1.5285 | 28.9402 | 7.6728 | 1.4618 | 9.1345 | | 69,748.8661 | 69,748.8661 | 0.2446 | 9.2999 | 72,526.3426 |
| Unmitigated | 3.3180 | 121.9709 | 39.5021 | 0.6642 | 27.4117 | 1.5285 | 28.9402 | 7.6728 | 1.4618 | 9.1345 | | 69,748.8661 | 69,748.8661 | 0.2446 | 9.2999 | 72,526.3426 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Refrigerated Warehouse-No Rail | 123.17 | 123.17 | 123.17 | 1,793,332 | 1,793,332 |
| Unrefrigerated Warehouse-No Rail | 656.90 | 656.90 | 656.90 | 9,564,499 | 9,564,499 |
| Total | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Refrigerated Warehouse-No | 40.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Refrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| NaturalGas Unmitigated | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 25671.1 | 0.2769 | 2.5168 | 2.1141 | 0.0151 | | 0.1913 | 0.1913 | | 0.1913 | 0.1913 | | 3,020.1316 | 3,020.1316 | 0.0579 | 0.0554 | 3,038.0788 |
| Unrefrigerated Warehouse-No Rail | 5652.3 | 0.0610 | 0.5542 | 0.4655 | 3.3200e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 664.9760 | 664.9760 | 0.0128 | 0.0122 | 668.9277 |
| Total | | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 25.6711 | 0.2769 | 2.5168 | 2.1141 | 0.0151 | | 0.1913 | 0.1913 | | 0.1913 | 0.1913 | | 3,020.1316 | 3,020.1316 | 0.0579 | 0.0554 | 3,038.0788 |
| Unrefrigerated Warehouse-No Rail | 5.6523 | 0.0610 | 0.5542 | 0.4655 | 3.3200e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 664.9760 | 664.9760 | 0.0128 | 0.0122 | 668.9277 |
| Total | | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

6.0 Area Detail

6.1 Mitigation Measures Area

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Unmitigated | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

7.0 Water Detail

7.1 Mitigation Measures Water

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Refrigerated Warehouse-No Rail | 181.13 | 1000sqft | 23.55 | 181,132.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 1,026.41 | 1000sqft | 40.59 | 1,026,412.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | Operational Year | 2024 | | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse, 181,132 sq ft of which is high-cube cold storage. 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 781 total truck trips. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|---------------------------|-------------------|--------------|--------------|
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 181,130.00 | 181,132.00 |
| tblLandUse | LandUseSquareFeet | 1,026,410.00 | 1,026,412.00 |
| tblLandUse | LotAcreage | 4.16 | 23.55 |
| tblLandUse | LotAcreage | 23.56 | 40.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | ST_TR | 2.12 | 0.68 |
| tblVehicleTrips | ST_TR | 1.74 | 0.64 |
| tblVehicleTrips | SU_TR | 2.12 | 0.68 |
| tblVehicleTrips | SU_TR | 1.74 | 0.64 |
| tblVehicleTrips | WD_TR | 2.12 | 0.68 |
| tblVehicleTrips | WD_TR | 1.74 | 0.64 |

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.5439 | 3.8119 | 4.8860 | 0.0146 | 1.5741 | 0.1410 | 1.7151 | 0.5670 | 0.1310 | 0.6980 | 0.0000 | 1,330.8597 | 1,330.8597 | 0.1454 | 0.0636 | 1,353.4583 |
| 2024 | 9.2688 | 3.3718 | 6.2944 | 0.0207 | 1.5162 | 0.1044 | 1.6206 | 0.4077 | 0.0983 | 0.5060 | 0.0000 | 1,899.2228 | 1,899.2228 | 0.1046 | 0.1076 | 1,933.9037 |
| Maximum | 9.2688 | 3.8119 | 6.2944 | 0.0207 | 1.5741 | 0.1410 | 1.7151 | 0.5670 | 0.1310 | 0.6980 | 0.0000 | 1,899.2228 | 1,899.2228 | 0.1454 | 0.1076 | 1,933.9037 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.5439 | 3.8119 | 4.8860 | 0.0146 | 1.1212 | 0.1410 | 1.2622 | 0.3598 | 0.1310 | 0.4908 | 0.0000 | 1,330.8591 | 1,330.8591 | 0.1454 | 0.0636 | 1,353.4577 |
| 2024 | 9.2688 | 3.3718 | 6.2944 | 0.0207 | 1.5162 | 0.1044 | 1.6206 | 0.4077 | 0.0983 | 0.5060 | 0.0000 | 1,899.2224 | 1,899.2224 | 0.1046 | 0.1076 | 1,933.9033 |
| Maximum | 9.2688 | 3.8119 | 6.2944 | 0.0207 | 1.5162 | 0.1410 | 1.6206 | 0.4077 | 0.1310 | 0.5060 | 0.0000 | 1,899.2224 | 1,899.2224 | 0.1454 | 0.1076 | 1,933.9033 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 14.66 | 0.00 | 13.58 | 21.26 | 0.00 | 17.21 | 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 | 1-1-2023 | 3-31-2023 | 1.0702 | 1.0702 |
| 2 | 4-1-2023 | 6-30-2023 | 1.2027 | 1.2027 |
| 3 | 7-1-2023 | 9-30-2023 | 1.0392 | 1.0392 |
| 4 | 10-1-2023 | 12-31-2023 | 1.0535 | 1.0535 |
| 5 | 1-1-2024 | 3-31-2024 | 0.9880 | 0.9880 |
| 6 | 4-1-2024 | 6-30-2024 | 2.2294 | 2.2294 |
| 7 | 7-1-2024 | 9-30-2024 | 5.0658 | 5.0658 |
| | | Highest | 5.0658 | 5.0658 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Energy | 0.0617 | 0.5604 | 0.4708 | 3.3600e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 2,350.3096 | 2,350.3096 | 0.1586 | 0.0290 | 2,362.9126 |
| Mobile | 0.6097 | 22.4052 | 7.1359 | 0.1207 | 4.9118 | 0.2778 | 5.1896 | 1.3775 | 0.2656 | 1.6432 | 0.0000 | 11,497.6950 | 11,497.6950 | 0.0407 | 1.5338 | 11,955.7853 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 230.4130 | 0.0000 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 88.5911 | 644.8339 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | 6.8500 | 22.9658 | 7.6318 | 0.1241 | 4.9118 | 0.3204 | 5.2322 | 1.3775 | 0.3083 | 1.6858 | 319.0041 | 14,492.8876 | 14,811.8917 | 22.9700 | 1.7842 | 15,917.8447 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Energy | 0.0617 | 0.5604 | 0.4708 | 3.3600e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 2,350.3096 | 2,350.3096 | 0.1586 | 0.0290 | 2,362.9126 |
| Mobile | 0.6097 | 22.4052 | 7.1359 | 0.1207 | 4.9118 | 0.2778 | 5.1896 | 1.3775 | 0.2656 | 1.6432 | 0.0000 | 11,497.6950 | 11,497.6950 | 0.0407 | 1.5338 | 11,955.7853 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 230.4130 | 0.0000 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 88.5911 | 644.8339 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | 6.8500 | 22.9658 | 7.6318 | 0.1241 | 4.9118 | 0.3204 | 5.2322 | 1.3775 | 0.3083 | 1.6858 | 319.0041 | 14,492.8876 | 14,811.8917 | 22.9700 | 1.7842 | 15,917.8447 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | |
|---|-----------------------|-----------------------|-----------|------------|---|-----|
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3931 | 0.0000 | 0.3931 | 0.2021 | 0.0000 | 0.2021 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.3931 | 0.0253 | 0.4185 | 0.2021 | 0.0233 | 0.2253 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1592 | 0.0000 | 0.1592 | 0.0818 | 0.0000 | 0.0818 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.1592 | 0.0253 | 0.1845 | 0.0818 | 0.0233 | 0.1051 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

3.3 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3681 | 0.0000 | 0.3681 | 0.1462 | 0.0000 | 0.1462 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.3681 | 0.0570 | 0.4251 | 0.1462 | 0.0524 | 0.1986 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1491 | 0.0000 | 0.1491 | 0.0592 | 0.0000 | 0.0592 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.1491 | 0.0570 | 0.2061 | 0.0592 | 0.0524 | 0.1116 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0299 | 0.7084 | 0.3637 | 3.7800e-003 | 0.1265 | 6.5700e-003 | 0.1331 | 0.0365 | 6.2900e-003 | 0.0428 | 0.0000 | 360.8371 | 360.8371 | 1.6600e-003 | 0.0493 | 375.5651 |
| Worker | 0.2132 | 0.1619 | 1.8580 | 5.5800e-003 | 0.6718 | 3.0900e-003 | 0.6749 | 0.1784 | 2.8400e-003 | 0.1812 | 0.0000 | 511.6340 | 511.6340 | 0.0127 | 0.0141 | 516.1373 |
| Total | 0.2431 | 0.8704 | 2.2218 | 9.3600e-003 | 0.7983 | 9.6600e-003 | 0.8080 | 0.2149 | 9.1300e-003 | 0.2240 | 0.0000 | 872.4711 | 872.4711 | 0.0143 | 0.0633 | 891.7024 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0299 | 0.7084 | 0.3637 | 3.7800e-003 | 0.1265 | 6.5700e-003 | 0.1331 | 0.0365 | 6.2900e-003 | 0.0428 | 0.0000 | 360.8371 | 360.8371 | 1.6600e-003 | 0.0493 | 375.5651 |
| Worker | 0.2132 | 0.1619 | 1.8580 | 5.5800e-003 | 0.6718 | 3.0900e-003 | 0.6749 | 0.1784 | 2.8400e-003 | 0.1812 | 0.0000 | 511.6340 | 511.6340 | 0.0127 | 0.0141 | 516.1373 |
| Total | 0.2431 | 0.8704 | 2.2218 | 9.3600e-003 | 0.7983 | 9.6600e-003 | 0.8080 | 0.2149 | 9.1300e-003 | 0.2240 | 0.0000 | 872.4711 | 872.4711 | 0.0143 | 0.0633 | 891.7024 |

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0496 | 1.2005 | 0.6029 | 6.3500e-003 | 0.2169 | 0.0112 | 0.2281 | 0.0626 | 0.0107 | 0.0733 | 0.0000 | 605.1445 | 605.1445 | 2.7200e-003 | 0.0825 | 629.8092 |
| Worker | 0.3389 | 0.2448 | 2.9454 | 9.2500e-003 | 1.1516 | 4.9900e-003 | 1.1566 | 0.3058 | 4.5900e-003 | 0.3104 | 0.0000 | 847.8987 | 847.8987 | 0.0195 | 0.0222 | 855.0075 |
| Total | 0.3884 | 1.4453 | 3.5483 | 0.0156 | 1.3685 | 0.0162 | 1.3847 | 0.3684 | 0.0153 | 0.3837 | 0.0000 | 1,453.0432 | 1,453.0432 | 0.0222 | 0.1048 | 1,484.8167 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0496 | 1.2005 | 0.6029 | 6.3500e-003 | 0.2169 | 0.0112 | 0.2281 | 0.0626 | 0.0107 | 0.0733 | 0.0000 | 605.1445 | 605.1445 | 2.7200e-003 | 0.0825 | 629.8092 |
| Worker | 0.3389 | 0.2448 | 2.9454 | 9.2500e-003 | 1.1516 | 4.9900e-003 | 1.1566 | 0.3058 | 4.5900e-003 | 0.3104 | 0.0000 | 847.8987 | 847.8987 | 0.0195 | 0.0222 | 855.0075 |
| Total | 0.3884 | 1.4453 | 3.5483 | 0.0156 | 1.3685 | 0.0162 | 1.3847 | 0.3684 | 0.0153 | 0.3837 | 0.0000 | 1,453.0432 | 1,453.0432 | 0.0222 | 0.1048 | 1,484.8167 |

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 8.6089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |
| Total | 8.6225 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |

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3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |
| Total | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 8.6089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |
| Total | 8.6225 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |

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3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |
| Total | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0379 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0379 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.6097 | 22.4052 | 7.1359 | 0.1207 | 4.9118 | 0.2778 | 5.1896 | 1.3775 | 0.2656 | 1.6432 | 0.0000 | 11,497.6950 | 11,497.6950 | 0.0407 | 1.5338 | 11,955.7853 |
| Unmitigated | 0.6097 | 22.4052 | 7.1359 | 0.1207 | 4.9118 | 0.2778 | 5.1896 | 1.3775 | 0.2656 | 1.6432 | 0.0000 | 11,497.6950 | 11,497.6950 | 0.0407 | 1.5338 | 11,955.7853 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Refrigerated Warehouse-No Rail | 123.17 | 123.17 | 123.17 | 1,793,332 | 1,793,332 |
| Unrefrigerated Warehouse-No Rail | 656.90 | 656.90 | 656.90 | 9,564,499 | 9,564,499 |
| Total | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Refrigerated Warehouse-No | 40.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Refrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | | | | | | | | | |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1,740.1987 | 1,740.1987 | 0.1469 | 0.0178 | 1,749.1761 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1,740.1987 | 1,740.1987 | 0.1469 | 0.0178 | 1,749.1761 |
| NaturalGas Mitigated | 0.0617 | 0.5604 | 0.4708 | 3.3600e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 610.1109 | 610.1109 | 0.0117 | 0.0112 | 613.7365 |
| NaturalGas Unmitigated | 0.0617 | 0.5604 | 0.4708 | 3.3600e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 610.1109 | 610.1109 | 0.0117 | 0.0112 | 613.7365 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 9.36996e+006 | 0.0505 | 0.4593 | 0.3858 | 2.7600e-003 | | 0.0349 | 0.0349 | | 0.0349 | 0.0349 | 0.0000 | 500.0167 | 500.0167 | 9.5800e-003 | 9.1700e-003 | 502.9880 |
| Unrefrigerated Warehouse-No Rail | 2.06309e+006 | 0.0111 | 0.1011 | 0.0850 | 6.1000e-004 | | 7.6900e-003 | 7.6900e-003 | | 7.6900e-003 | 7.6900e-003 | 0.0000 | 110.0942 | 110.0942 | 2.1100e-003 | 2.0200e-003 | 110.7485 |
| Total | | 0.0616 | 0.5604 | 0.4708 | 3.3700e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 610.1109 | 610.1109 | 0.0117 | 0.0112 | 613.7365 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 9.36996e+006 | 0.0505 | 0.4593 | 0.3858 | 2.7600e-003 | | 0.0349 | 0.0349 | | 0.0349 | 0.0349 | 0.0000 | 500.0167 | 500.0167 | 9.5800e-003 | 9.1700e-003 | 502.9880 |
| Unrefrigerated Warehouse-No Rail | 2.06309e+006 | 0.0111 | 0.1011 | 0.0850 | 6.1000e-004 | | 7.6900e-003 | 7.6900e-003 | | 7.6900e-003 | 7.6900e-003 | 0.0000 | 110.0942 | 110.0942 | 2.1100e-003 | 2.0200e-003 | 110.7485 |
| Total | | 0.0616 | 0.5604 | 0.4708 | 3.3700e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 610.1109 | 610.1109 | 0.0117 | 0.0112 | 613.7365 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 214900 | 38.1116 | 3.2200e-003 | 3.9000e-004 | 38.3082 |
| Refrigerated Warehouse-No Rail | 7.2163e+006 | 1,279.7785 | 0.1080 | 0.0131 | 1,286.3806 |
| Unrefrigerated Warehouse-No Rail | 2.38128e+006 | 422.3087 | 0.0356 | 4.3200e-003 | 424.4873 |
| Total | | 1,740.1987 | 0.1469 | 0.0178 | 1,749.1761 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 214900 | 38.1116 | 3.2200e-003 | 3.9000e-004 | 38.3082 |
| Refrigerated Warehouse-No Rail | 7.2163e+006 | 1,279.7785 | 0.1080 | 0.0131 | 1,286.3806 |
| Unrefrigerated Warehouse-No Rail | 2.38128e+006 | 422.3087 | 0.0356 | 4.3200e-003 | 424.4873 |
| Total | | 1,740.1987 | 0.1469 | 0.0178 | 1,749.1761 |

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Unmitigated | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.4206 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 4.7558 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.3200e-003 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Total | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.4206 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 4.7558 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.3200e-003 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Total | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------------|
| Category | MT/yr | | | |
| Mitigated | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |
| Unmitigated | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|------------------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Refrigerated Warehouse-No Rail | 41.8863 / 0 | 110.0132 | 1.3730 | 0.0332 | 154.2376 |
| Unrefrigerated Warehouse-No Rail | 237.357 / 0 | 623.4119 | 7.7806 | 0.1882 | 874.0186 |
| Total | | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Refrigerated Warehouse-No Rail | 41.8863 / 0 | 110.0132 | 1.3730 | 0.0332 | 154.2376 |
| Unrefrigerated Warehouse-No Rail | 237.357 / 0 | 623.4119 | 7.7806 | 0.1882 | 874.0186 |
| Total | | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Unmitigated | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Refrigerated Warehouse-No Rail | 170.26 | 34.5612 | 2.0425 | 0.0000 | 85.6240 |
| Unrefrigerated Warehouse-No Rail | 964.83 | 195.8518 | 11.5745 | 0.0000 | 485.2145 |
| Total | | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Refrigerated Warehouse-No Rail | 170.26 | 34.5612 | 2.0425 | 0.0000 | 85.6240 |
| Unrefrigerated Warehouse-No Rail | 964.83 | 195.8518 | 11.5745 | 0.0000 | 485.2145 |
| Total | | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

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 |
|----------------|--------|
|----------------|--------|

Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

CalEEMod Runs

Passenger Vehicle Run

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Development at Dale Evans and Lafayette - Passenger Vehicle Run

Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Refrigerated Warehouse-No Rail | 181.13 | 1000sqft | 23.55 | 181,132.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 1,026.41 | 1000sqft | 40.59 | 1,026,412.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | Operational Year | 2024 | | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse, 181,132 sq ft of which is high-cube cold storage. 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1,788 total passenger vehicle trips. Assumes Sat trip rate is 10% of daily, Sun trip rate is 5% of daily. Assumes 100% Light Duty Auto (LDA). Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are Light Duty Auto (LDA).

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|---------------------------|-------------------|--------------|--------------|
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 181,130.00 | 181,132.00 |
| tblLandUse | LandUseSquareFeet | 1,026,410.00 | 1,026,412.00 |
| tblLandUse | LotAcreage | 4.16 | 23.55 |
| tblLandUse | LotAcreage | 23.56 | 40.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.12 | 0.14 |
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | SU_TR | 2.12 | 0.07 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 2.12 | 1.43 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.5440 | 34.5707 | 53.0684 | 0.1682 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 17,055.1276 | 17,055.1276 | 1.9494 | 0.9819 | 17,368.5523 |
| 2024 | 122.7424 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.2867 | 15.0382 | 3.6887 | 1.2047 | 4.8934 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.5756 | 0.9904 | 21,333.2247 |
| Maximum | 122.7424 | 35.9415 | 73.2645 | 0.2085 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.9494 | 0.9904 | 21,333.2247 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.5440 | 34.5707 | 53.0684 | 0.1682 | 11.6057 | 1.4256 | 12.4433 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 17,055.1276 | 17,055.1276 | 1.9494 | 0.9819 | 17,368.5523 |
| 2024 | 122.7424 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.2867 | 15.0382 | 3.6887 | 1.2047 | 4.8934 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.5756 | 0.9904 | 21,333.2247 |
| Maximum | 122.7424 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.4256 | 15.0382 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.9494 | 0.9904 | 21,333.2247 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 24.62 | 0.00 | 24.07 | 43.39 | 0.00 | 37.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| Mobile | 2.5435 | 2.2983 | 45.7890 | 0.1558 | 19.9492 | 0.0764 | 20.0255 | 5.2883 | 0.0703 | 5.3586 | | 15,742.9585 | 15,742.9585 | 0.2705 | 0.3194 | 15,844.8987 |
| Total | 36.7501 | 5.3717 | 48.6482 | 0.1742 | 19.9492 | 0.3107 | 20.2599 | 5.2883 | 0.3047 | 5.5930 | | 19,428.6663 | 19,428.6663 | 0.3427 | 0.3870 | 19,552.5445 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| Mobile | 2.5435 | 2.2983 | 45.7890 | 0.1558 | 19.9492 | 0.0764 | 20.0255 | 5.2883 | 0.0703 | 5.3586 | | 15,742.9585 | 15,742.9585 | 0.2705 | 0.3194 | 15,844.8987 |
| Total | 36.7501 | 5.3717 | 48.6482 | 0.1742 | 19.9492 | 0.3107 | 20.2599 | 5.2883 | 0.3047 | 5.5930 | | 19,428.6663 | 19,428.6663 | 0.3427 | 0.3870 | 19,552.5445 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4455 | 9.5911 | 5.0998 | 0.0540 | 1.8343 | 0.0938 | 1.9281 | 0.5284 | 0.0897 | 0.6180 | | 5,674.8562 | 5,674.8562 | 0.0266 | 0.7737 | 5,906.0853 |
| Worker | 3.5258 | 2.1092 | 31.7246 | 0.0873 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 8,825.0615 | 8,825.0615 | 0.1978 | 0.2082 | 8,892.0609 |
| Total | 3.9713 | 11.7003 | 36.8244 | 0.1413 | 11.6057 | 0.1379 | 11.7436 | 3.1196 | 0.1303 | 3.2499 | | 14,499.9177 | 14,499.9177 | 0.2244 | 0.9819 | 14,798.1463 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4455 | 9.5911 | 5.0998 | 0.0540 | 1.8343 | 0.0938 | 1.9281 | 0.5284 | 0.0897 | 0.6180 | | 5,674.8562 | 5,674.8562 | 0.0266 | 0.7737 | 5,906.0853 |
| Worker | 3.5258 | 2.1092 | 31.7246 | 0.0873 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 8,825.0615 | 8,825.0615 | 0.1978 | 0.2082 | 8,892.0609 |
| Total | 3.9713 | 11.7003 | 36.8244 | 0.1413 | 11.6057 | 0.1379 | 11.7436 | 3.1196 | 0.1303 | 3.2499 | | 14,499.9177 | 14,499.9177 | 0.2244 | 0.9819 | 14,798.1463 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4305 | 9.4847 | 4.9272 | 0.0528 | 1.8343 | 0.0932 | 1.9276 | 0.5284 | 0.0892 | 0.6175 | | 5,551.5397 | 5,551.5397 | 0.0254 | 0.7560 | 5,777.4523 |
| Worker | 3.2647 | 1.8610 | 29.3000 | 0.0844 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 8,529.3560 | 8,529.3560 | 0.1772 | 0.1922 | 8,591.0600 |
| Total | 3.6952 | 11.3456 | 34.2273 | 0.1372 | 11.6057 | 0.1348 | 11.7405 | 3.1196 | 0.1275 | 3.2471 | | 14,080.8957 | 14,080.8957 | 0.2025 | 0.9482 | 14,368.5123 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4305 | 9.4847 | 4.9272 | 0.0528 | 1.8343 | 0.0932 | 1.9276 | 0.5284 | 0.0892 | 0.6175 | | 5,551.5397 | 5,551.5397 | 0.0254 | 0.7560 | 5,777.4523 |
| Worker | 3.2647 | 1.8610 | 29.3000 | 0.0844 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 8,529.3560 | 8,529.3560 | 0.1772 | 0.1922 | 8,591.0600 |
| Total | 3.6952 | 11.3456 | 34.2273 | 0.1372 | 11.6057 | 0.1348 | 11.7405 | 3.1196 | 0.1275 | 3.2471 | | 14,080.8957 | 14,080.8957 | 0.2025 | 0.9482 | 14,368.5123 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 114.7852 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 114.9660 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |
| Total | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 114.7852 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 114.9660 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |
| Total | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.5435 | 2.2983 | 45.7890 | 0.1558 | 19.9492 | 0.0764 | 20.0255 | 5.2883 | 0.0703 | 5.3586 | | 15,742.9585 | 15,742.9585 | 0.2705 | 0.3194 | 15,844.8987 |
| Unmitigated | 2.5435 | 2.2983 | 45.7890 | 0.1558 | 19.9492 | 0.0764 | 20.0255 | 5.2883 | 0.0703 | 5.3586 | | 15,742.9585 | 15,742.9585 | 0.2705 | 0.3194 | 15,844.8987 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|--------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Refrigerated Warehouse-No Rail | 259.02 | 25.36 | 12.68 | 1,019,034 | 1,019,034 |
| Unrefrigerated Warehouse-No Rail | 1,527.30 | 151.91 | 75.95 | 6,011,512 | 6,011,512 |
| Total | 1,786.31 | 177.27 | 88.63 | 7,030,546 | 7,030,546 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Refrigerated Warehouse-No | 14.70 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |
| Unrefrigerated Warehouse-No | 14.70 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Refrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Unrefrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| NaturalGas Unmitigated | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 25671.1 | 0.2769 | 2.5168 | 2.1141 | 0.0151 | | 0.1913 | 0.1913 | | 0.1913 | 0.1913 | | 3,020.1316 | 3,020.1316 | 0.0579 | 0.0554 | 3,038.0788 |
| Unrefrigerated Warehouse-No Rail | 5652.3 | 0.0610 | 0.5542 | 0.4655 | 3.3200e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 664.9760 | 664.9760 | 0.0128 | 0.0122 | 668.9277 |
| Total | | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 25.6711 | 0.2769 | 2.5168 | 2.1141 | 0.0151 | | 0.1913 | 0.1913 | | 0.1913 | 0.1913 | | 3,020.1316 | 3,020.1316 | 0.0579 | 0.0554 | 3,038.0788 |
| Unrefrigerated Warehouse-No Rail | 5.6523 | 0.0610 | 0.5542 | 0.4655 | 3.3200e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 664.9760 | 664.9760 | 0.0128 | 0.0122 | 668.9277 |
| Total | | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

6.0 Area Detail

6.1 Mitigation Measures Area

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Unmitigated | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

7.0 Water Detail

7.1 Mitigation Measures Water

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Development at Dale Evans and Lafayette - Passenger Vehicle Run

Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Refrigerated Warehouse-No Rail | 181.13 | 1000sqft | 23.55 | 181,132.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 1,026.41 | 1000sqft | 40.59 | 1,026,412.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | Operational Year | 2024 | | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse, 181,132 sq ft of which is high-cube cold storage. 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1,788 total passenger vehicle trips. Assumes Sat trip rate is 10% of daily, Sun trip rate is 5% of daily. Assumes 100% Light Duty Auto (LDA). Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are Light Duty Auto (LDA).

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|---------------------------|-------------------|--------------|--------------|
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 181,130.00 | 181,132.00 |
| tblLandUse | LandUseSquareFeet | 1,026,410.00 | 1,026,412.00 |
| tblLandUse | LotAcreage | 4.16 | 23.55 |
| tblLandUse | LotAcreage | 23.56 | 40.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.12 | 0.14 |
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | SU_TR | 2.12 | 0.07 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 2.12 | 1.43 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.2963 | 34.5722 | 46.2393 | 0.1586 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 16,082.17 42 | 16,082.17 42 | 1.9493 | 0.9887 | 16,397.48 87 |
| 2024 | 122.4784 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.2870 | 15.0386 | 3.6887 | 1.2050 | 4.8937 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.5713 | 0.9973 | 20,187.97 86 |
| Maximum | 122.4784 | 36.6190 | 65.5855 | 0.1971 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.9493 | 0.9973 | 20,187.97 86 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.2963 | 34.5722 | 46.2393 | 0.1586 | 11.6057 | 1.4256 | 12.4436 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 16,082.17 42 | 16,082.17 42 | 1.9493 | 0.9887 | 16,397.48 87 |
| 2024 | 122.4784 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.2870 | 15.0386 | 3.6887 | 1.2050 | 4.8937 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.5713 | 0.9973 | 20,187.97 86 |
| Maximum | 122.4784 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.4256 | 15.0386 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.9493 | 0.9973 | 20,187.97 86 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 24.62 | 0.00 | 24.07 | 43.39 | 0.00 | 37.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| Mobile | 2.0250 | 2.3489 | 36.1146 | 0.1367 | 19.9492 | 0.0764 | 20.0255 | 5.2883 | 0.0703 | 5.3586 | | 13,817.6858 | 13,817.6858 | 0.2747 | 0.3234 | 13,920.9307 |
| Total | 36.2316 | 5.4223 | 38.9738 | 0.1551 | 19.9492 | 0.3107 | 20.2599 | 5.2883 | 0.3047 | 5.5930 | | 17,503.3937 | 17,503.3937 | 0.3469 | 0.3910 | 17,628.5765 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| Mobile | 2.0250 | 2.3489 | 36.1146 | 0.1367 | 19.9492 | 0.0764 | 20.0255 | 5.2883 | 0.0703 | 5.3586 | | 13,817.6858 | 13,817.6858 | 0.2747 | 0.3234 | 13,920.9307 |
| Total | 36.2316 | 5.4223 | 38.9738 | 0.1551 | 19.9492 | 0.3107 | 20.2599 | 5.2883 | 0.3047 | 5.5930 | | 17,503.3937 | 17,503.3937 | 0.3469 | 0.3910 | 17,628.5765 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4150 | 10.2159 | 5.2824 | 0.0542 | 1.8343 | 0.0941 | 1.9284 | 0.5284 | 0.0900 | 0.6183 | | 5,692.2889 | 5,692.2889 | 0.0253 | 0.7774 | 5,924.5792 |
| Worker | 3.3086 | 2.1657 | 24.7130 | 0.0775 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 7,834.6754 | 7,834.6754 | 0.1942 | 0.2113 | 7,902.5035 |
| Total | 3.7236 | 12.3816 | 29.9953 | 0.1317 | 11.6057 | 0.1382 | 11.7439 | 3.1196 | 0.1306 | 3.2502 | | 13,526.9642 | 13,526.9642 | 0.2195 | 0.9887 | 13,827.0826 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4150 | 10.2159 | 5.2824 | 0.0542 | 1.8343 | 0.0941 | 1.9284 | 0.5284 | 0.0900 | 0.6183 | | 5,692.2889 | 5,692.2889 | 0.0253 | 0.7774 | 5,924.5792 |
| Worker | 3.3086 | 2.1657 | 24.7130 | 0.0775 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 7,834.6754 | 7,834.6754 | 0.1942 | 0.2113 | 7,902.5035 |
| Total | 3.7236 | 12.3816 | 29.9953 | 0.1317 | 11.6057 | 0.1382 | 11.7439 | 3.1196 | 0.1306 | 3.2502 | | 13,526.9642 | 13,526.9642 | 0.2195 | 0.9887 | 13,827.0826 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4001 | 10.1023 | 5.1104 | 0.0530 | 1.8343 | 0.0936 | 1.9279 | 0.5284 | 0.0895 | 0.6178 | | 5,568.7742 | 5,568.7742 | 0.0241 | 0.7595 | 5,795.7102 |
| Worker | 3.0731 | 1.9101 | 22.8535 | 0.0749 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 7,574.5879 | 7,574.5879 | 0.1746 | 0.1950 | 7,637.0616 |
| Total | 3.4733 | 12.0124 | 27.9640 | 0.1279 | 11.6057 | 0.1351 | 11.7408 | 3.1196 | 0.1278 | 3.2474 | | 13,143.3621 | 13,143.3621 | 0.1988 | 0.9545 | 13,432.7717 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4001 | 10.1023 | 5.1104 | 0.0530 | 1.8343 | 0.0936 | 1.9279 | 0.5284 | 0.0895 | 0.6178 | | 5,568.7742 | 5,568.7742 | 0.0241 | 0.7595 | 5,795.7102 |
| Worker | 3.0731 | 1.9101 | 22.8535 | 0.0749 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 7,574.5879 | 7,574.5879 | 0.1746 | 0.1950 | 7,637.0616 |
| Total | 3.4733 | 12.0124 | 27.9640 | 0.1279 | 11.6057 | 0.1351 | 11.7408 | 3.1196 | 0.1278 | 3.2474 | | 13,143.3621 | 13,143.3621 | 0.1988 | 0.9545 | 13,432.7717 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 114.7852 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 114.9660 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |
| Total | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 114.7852 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 114.9660 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |
| Total | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.0250 | 2.3489 | 36.1146 | 0.1367 | 19.9492 | 0.0764 | 20.0255 | 5.2883 | 0.0703 | 5.3586 | | 13,817.6858 | 13,817.6858 | 0.2747 | 0.3234 | 13,920.9307 |
| Unmitigated | 2.0250 | 2.3489 | 36.1146 | 0.1367 | 19.9492 | 0.0764 | 20.0255 | 5.2883 | 0.0703 | 5.3586 | | 13,817.6858 | 13,817.6858 | 0.2747 | 0.3234 | 13,920.9307 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|--------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Refrigerated Warehouse-No Rail | 259.02 | 25.36 | 12.68 | 1,019,034 | 1,019,034 |
| Unrefrigerated Warehouse-No Rail | 1,527.30 | 151.91 | 75.95 | 6,011,512 | 6,011,512 |
| Total | 1,786.31 | 177.27 | 88.63 | 7,030,546 | 7,030,546 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Refrigerated Warehouse-No | 14.70 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |
| Unrefrigerated Warehouse-No | 14.70 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Refrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| Unrefrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |
| NaturalGas Unmitigated | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 25671.1 | 0.2769 | 2.5168 | 2.1141 | 0.0151 | | 0.1913 | 0.1913 | | 0.1913 | 0.1913 | | 3,020.1316 | 3,020.1316 | 0.0579 | 0.0554 | 3,038.0788 |
| Unrefrigerated Warehouse-No Rail | 5652.3 | 0.0610 | 0.5542 | 0.4655 | 3.3200e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 664.9760 | 664.9760 | 0.0128 | 0.0122 | 668.9277 |
| Total | | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 25.6711 | 0.2769 | 2.5168 | 2.1141 | 0.0151 | | 0.1913 | 0.1913 | | 0.1913 | 0.1913 | | 3,020.1316 | 3,020.1316 | 0.0579 | 0.0554 | 3,038.0788 |
| Unrefrigerated Warehouse-No Rail | 5.6523 | 0.0610 | 0.5542 | 0.4655 | 3.3200e-003 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 664.9760 | 664.9760 | 0.0128 | 0.0122 | 668.9277 |
| Total | | 0.3378 | 3.0709 | 2.5796 | 0.0184 | | 0.2334 | 0.2334 | | 0.2334 | 0.2334 | | 3,685.1077 | 3,685.1077 | 0.0706 | 0.0676 | 3,707.0064 |

6.0 Area Detail

6.1 Mitigation Measures Area

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Unmitigated | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8688 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

7.0 Water Detail

7.1 Mitigation Measures Water

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Development at Dale Evans and Lafayette - Passenger Vehicle Run
Mojave Desert AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Refrigerated Warehouse-No Rail | 181.13 | 1000sqft | 23.55 | 181,132.00 | 0 |
| Unrefrigerated Warehouse-No Rail | 1,026.41 | 1000sqft | 40.59 | 1,026,412.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | Operational Year | 2024 | | |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse, 181,132 sq ft of which is high-cube cold storage. 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1,788 total passenger vehicle trips. Assumes Sat trip rate is 10% of daily, Sun trip rate is 5% of daily. Assumes 100% Light Duty Auto (LDA). Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are Light Duty Auto (LDA).

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|-------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|---------------------------|-------------------|--------------|--------------|
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 181,130.00 | 181,132.00 |
| tblLandUse | LandUseSquareFeet | 1,026,410.00 | 1,026,412.00 |
| tblLandUse | LotAcreage | 4.16 | 23.55 |
| tblLandUse | LotAcreage | 23.56 | 40.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CC_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TL | 6.60 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 2.12 | 0.14 |
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | SU_TR | 2.12 | 0.07 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 2.12 | 1.43 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.5439 | 3.8119 | 4.8860 | 0.0146 | 1.5741 | 0.1410 | 1.7151 | 0.5670 | 0.1310 | 0.6980 | 0.0000 | 1,330.8597 | 1,330.8597 | 0.1454 | 0.0636 | 1,353.4583 |
| 2024 | 9.2688 | 3.3718 | 6.2944 | 0.0207 | 1.5162 | 0.1044 | 1.6206 | 0.4077 | 0.0983 | 0.5060 | 0.0000 | 1,899.2228 | 1,899.2228 | 0.1046 | 0.1076 | 1,933.9037 |
| Maximum | 9.2688 | 3.8119 | 6.2944 | 0.0207 | 1.5741 | 0.1410 | 1.7151 | 0.5670 | 0.1310 | 0.6980 | 0.0000 | 1,899.2228 | 1,899.2228 | 0.1454 | 0.1076 | 1,933.9037 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.5439 | 3.8119 | 4.8860 | 0.0146 | 1.1212 | 0.1410 | 1.2622 | 0.3598 | 0.1310 | 0.4908 | 0.0000 | 1,330.8591 | 1,330.8591 | 0.1454 | 0.0636 | 1,353.4577 |
| 2024 | 9.2688 | 3.3718 | 6.2944 | 0.0207 | 1.5162 | 0.1044 | 1.6206 | 0.4077 | 0.0983 | 0.5060 | 0.0000 | 1,899.2224 | 1,899.2224 | 0.1046 | 0.1076 | 1,933.9033 |
| Maximum | 9.2688 | 3.8119 | 6.2944 | 0.0207 | 1.5162 | 0.1410 | 1.6206 | 0.4077 | 0.1310 | 0.5060 | 0.0000 | 1,899.2224 | 1,899.2224 | 0.1454 | 0.1076 | 1,933.9033 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 14.66 | 0.00 | 13.58 | 21.26 | 0.00 | 17.21 | 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 | 1-1-2023 | 3-31-2023 | 1.0702 | 1.0702 |
| 2 | 4-1-2023 | 6-30-2023 | 1.2027 | 1.2027 |
| 3 | 7-1-2023 | 9-30-2023 | 1.0392 | 1.0392 |
| 4 | 10-1-2023 | 12-31-2023 | 1.0535 | 1.0535 |
| 5 | 1-1-2024 | 3-31-2024 | 0.9880 | 0.9880 |
| 6 | 4-1-2024 | 6-30-2024 | 2.2294 | 2.2294 |
| 7 | 7-1-2024 | 9-30-2024 | 5.0658 | 5.0658 |
| | | Highest | 5.0658 | 5.0658 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Energy | 0.0617 | 0.5604 | 0.4708 | 3.3600e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 2,350.3096 | 2,350.3096 | 0.1586 | 0.0290 | 2,362.9126 |
| Mobile | 0.2700 | 0.3343 | 5.1896 | 0.0189 | 2.6229 | 0.0102 | 2.6331 | 0.6962 | 9.4000e-003 | 0.7056 | 0.0000 | 1,728.4923 | 1,728.4923 | 0.0342 | 0.0409 | 1,741.5472 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 230.4130 | 0.0000 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 88.5911 | 644.8339 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | 6.5103 | 0.8950 | 5.6855 | 0.0222 | 2.6229 | 0.0529 | 2.6757 | 0.6962 | 0.0521 | 0.7483 | 319.0041 | 4,723.6849 | 5,042.6890 | 22.9635 | 0.2914 | 5,703.6066 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Energy | 0.0617 | 0.5604 | 0.4708 | 3.3600e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 2,350.3096 | 2,350.3096 | 0.1586 | 0.0290 | 2,362.9126 |
| Mobile | 0.2700 | 0.3343 | 5.1896 | 0.0189 | 2.6229 | 0.0102 | 2.6331 | 0.6962 | 9.4000e-003 | 0.7056 | 0.0000 | 1,728.4923 | 1,728.4923 | 0.0342 | 0.0409 | 1,741.5472 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 230.4130 | 0.0000 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 88.5911 | 644.8339 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | 6.5103 | 0.8950 | 5.6855 | 0.0222 | 2.6229 | 0.0529 | 2.6757 | 0.6962 | 0.0521 | 0.7483 | 319.0041 | 4,723.6849 | 5,042.6890 | 22.9635 | 0.2914 | 5,703.6066 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | |
|---|-----------------------|-----------------------|-----------|------------|---|-----|
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3931 | 0.0000 | 0.3931 | 0.2021 | 0.0000 | 0.2021 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.3931 | 0.0253 | 0.4185 | 0.2021 | 0.0233 | 0.2253 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1592 | 0.0000 | 0.1592 | 0.0818 | 0.0000 | 0.0818 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.1592 | 0.0253 | 0.1845 | 0.0818 | 0.0233 | 0.1051 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |

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3.2 Site Preparation - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

3.3 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3681 | 0.0000 | 0.3681 | 0.1462 | 0.0000 | 0.1462 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.3681 | 0.0570 | 0.4251 | 0.1462 | 0.0524 | 0.1986 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1491 | 0.0000 | 0.1491 | 0.0592 | 0.0000 | 0.0592 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.1491 | 0.0570 | 0.2061 | 0.0592 | 0.0524 | 0.1116 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0299 | 0.7084 | 0.3637 | 3.7800e-003 | 0.1265 | 6.5700e-003 | 0.1331 | 0.0365 | 6.2900e-003 | 0.0428 | 0.0000 | 360.8371 | 360.8371 | 1.6600e-003 | 0.0493 | 375.5651 |
| Worker | 0.2132 | 0.1619 | 1.8580 | 5.5800e-003 | 0.6718 | 3.0900e-003 | 0.6749 | 0.1784 | 2.8400e-003 | 0.1812 | 0.0000 | 511.6340 | 511.6340 | 0.0127 | 0.0141 | 516.1373 |
| Total | 0.2431 | 0.8704 | 2.2218 | 9.3600e-003 | 0.7983 | 9.6600e-003 | 0.8080 | 0.2149 | 9.1300e-003 | 0.2240 | 0.0000 | 872.4711 | 872.4711 | 0.0143 | 0.0633 | 891.7024 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0299 | 0.7084 | 0.3637 | 3.7800e-003 | 0.1265 | 6.5700e-003 | 0.1331 | 0.0365 | 6.2900e-003 | 0.0428 | 0.0000 | 360.8371 | 360.8371 | 1.6600e-003 | 0.0493 | 375.5651 |
| Worker | 0.2132 | 0.1619 | 1.8580 | 5.5800e-003 | 0.6718 | 3.0900e-003 | 0.6749 | 0.1784 | 2.8400e-003 | 0.1812 | 0.0000 | 511.6340 | 511.6340 | 0.0127 | 0.0141 | 516.1373 |
| Total | 0.2431 | 0.8704 | 2.2218 | 9.3600e-003 | 0.7983 | 9.6600e-003 | 0.8080 | 0.2149 | 9.1300e-003 | 0.2240 | 0.0000 | 872.4711 | 872.4711 | 0.0143 | 0.0633 | 891.7024 |

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0496 | 1.2005 | 0.6029 | 6.3500e-003 | 0.2169 | 0.0112 | 0.2281 | 0.0626 | 0.0107 | 0.0733 | 0.0000 | 605.1445 | 605.1445 | 2.7200e-003 | 0.0825 | 629.8092 |
| Worker | 0.3389 | 0.2448 | 2.9454 | 9.2500e-003 | 1.1516 | 4.9900e-003 | 1.1566 | 0.3058 | 4.5900e-003 | 0.3104 | 0.0000 | 847.8987 | 847.8987 | 0.0195 | 0.0222 | 855.0075 |
| Total | 0.3884 | 1.4453 | 3.5483 | 0.0156 | 1.3685 | 0.0162 | 1.3847 | 0.3684 | 0.0153 | 0.3837 | 0.0000 | 1,453.0432 | 1,453.0432 | 0.0222 | 0.1048 | 1,484.8167 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0496 | 1.2005 | 0.6029 | 6.3500e-003 | 0.2169 | 0.0112 | 0.2281 | 0.0626 | 0.0107 | 0.0733 | 0.0000 | 605.1445 | 605.1445 | 2.7200e-003 | 0.0825 | 629.8092 |
| Worker | 0.3389 | 0.2448 | 2.9454 | 9.2500e-003 | 1.1516 | 4.9900e-003 | 1.1566 | 0.3058 | 4.5900e-003 | 0.3104 | 0.0000 | 847.8987 | 847.8987 | 0.0195 | 0.0222 | 855.0075 |
| Total | 0.3884 | 1.4453 | 3.5483 | 0.0156 | 1.3685 | 0.0162 | 1.3847 | 0.3684 | 0.0153 | 0.3837 | 0.0000 | 1,453.0432 | 1,453.0432 | 0.0222 | 0.1048 | 1,484.8167 |

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 8.6089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |
| Total | 8.6225 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |
| Total | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 8.6089 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |
| Total | 8.6225 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |
| Total | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0379 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0379 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | | | | | | | | | | | |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Unrefrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1,740.1987 | 1,740.1987 | 0.1469 | 0.0178 | 1,749.1761 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1,740.1987 | 1,740.1987 | 0.1469 | 0.0178 | 1,749.1761 |
| NaturalGas Mitigated | 0.0617 | 0.5604 | 0.4708 | 3.3600e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 610.1109 | 610.1109 | 0.0117 | 0.0112 | 613.7365 |
| NaturalGas Unmitigated | 0.0617 | 0.5604 | 0.4708 | 3.3600e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 610.1109 | 610.1109 | 0.0117 | 0.0112 | 613.7365 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 9.36996e+006 | 0.0505 | 0.4593 | 0.3858 | 2.7600e-003 | | 0.0349 | 0.0349 | | 0.0349 | 0.0349 | 0.0000 | 500.0167 | 500.0167 | 9.5800e-003 | 9.1700e-003 | 502.9880 |
| Unrefrigerated Warehouse-No Rail | 2.06309e+006 | 0.0111 | 0.1011 | 0.0850 | 6.1000e-004 | | 7.6900e-003 | 7.6900e-003 | | 7.6900e-003 | 7.6900e-003 | 0.0000 | 110.0942 | 110.0942 | 2.1100e-003 | 2.0200e-003 | 110.7485 |
| Total | | 0.0616 | 0.5604 | 0.4708 | 3.3700e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 610.1109 | 610.1109 | 0.0117 | 0.0112 | 613.7365 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Refrigerated Warehouse-No Rail | 9.36996e+006 | 0.0505 | 0.4593 | 0.3858 | 2.7600e-003 | | 0.0349 | 0.0349 | | 0.0349 | 0.0349 | 0.0000 | 500.0167 | 500.0167 | 9.5800e-003 | 9.1700e-003 | 502.9880 |
| Unrefrigerated Warehouse-No Rail | 2.06309e+006 | 0.0111 | 0.1011 | 0.0850 | 6.1000e-004 | | 7.6900e-003 | 7.6900e-003 | | 7.6900e-003 | 7.6900e-003 | 0.0000 | 110.0942 | 110.0942 | 2.1100e-003 | 2.0200e-003 | 110.7485 |
| Total | | 0.0616 | 0.5604 | 0.4708 | 3.3700e-003 | | 0.0426 | 0.0426 | | 0.0426 | 0.0426 | 0.0000 | 610.1109 | 610.1109 | 0.0117 | 0.0112 | 613.7365 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 214900 | 38.1116 | 3.2200e-003 | 3.9000e-004 | 38.3082 |
| Refrigerated Warehouse-No Rail | 7.2163e+006 | 1,279.7785 | 0.1080 | 0.0131 | 1,286.3806 |
| Unrefrigerated Warehouse-No Rail | 2.38128e+006 | 422.3087 | 0.0356 | 4.3200e-003 | 424.4873 |
| Total | | 1,740.1987 | 0.1469 | 0.0178 | 1,749.1761 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 214900 | 38.1116 | 3.2200e-003 | 3.9000e-004 | 38.3082 |
| Refrigerated Warehouse-No Rail | 7.2163e+006 | 1,279.7785 | 0.1080 | 0.0131 | 1,286.3806 |
| Unrefrigerated Warehouse-No Rail | 2.38128e+006 | 422.3087 | 0.0356 | 4.3200e-003 | 424.4873 |
| Total | | 1,740.1987 | 0.1469 | 0.0178 | 1,749.1761 |

6.0 Area Detail

6.1 Mitigation Measures Area

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Unmitigated | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.4206 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 4.7558 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.3200e-003 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Total | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.4206 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 4.7558 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.3200e-003 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Total | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

7.0 Water Detail

7.1 Mitigation Measures Water

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------------|
| Category | MT/yr | | | |
| Mitigated | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |
| Unmitigated | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|------------------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Refrigerated Warehouse-No Rail | 41.8863 / 0 | 110.0132 | 1.3730 | 0.0332 | 154.2376 |
| Unrefrigerated Warehouse-No Rail | 237.357 / 0 | 623.4119 | 7.7806 | 0.1882 | 874.0186 |
| Total | | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Refrigerated Warehouse-No Rail | 41.8863 / 0 | 110.0132 | 1.3730 | 0.0332 | 154.2376 |
| Unrefrigerated Warehouse-No Rail | 237.357 / 0 | 623.4119 | 7.7806 | 0.1882 | 874.0186 |
| Total | | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Unmitigated | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Refrigerated Warehouse-No Rail | 170.26 | 34.5612 | 2.0425 | 0.0000 | 85.6240 |
| Unrefrigerated Warehouse-No Rail | 964.83 | 195.8518 | 11.5745 | 0.0000 | 485.2145 |
| Total | | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Refrigerated Warehouse-No Rail | 170.26 | 34.5612 | 2.0425 | 0.0000 | 85.6240 |
| Unrefrigerated Warehouse-No Rail | 964.83 | 195.8518 | 11.5745 | 0.0000 | 485.2145 |
| Total | | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

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 |
|----------------|--------|
|----------------|--------|

Development at Dale Evans and Lafayette - Passenger Vehicle Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

CalEEMod Runs

Alternative B - Truck Only Run

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt B - Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 1,207.54 | 1000sqft | 64.14 | 1,207,544.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative B, 100% high cube (non-refrigerated). Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse (non-refrigerated). 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 781 total truck trips. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|--------------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,207,540.00 | 1,207,544.00 |
| tblLandUse | LotAcreage | 27.72 | 64.14 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.65 |
| tblVehicleTrips | SU_TR | 1.74 | 0.65 |
| tblVehicleTrips | WD_TR | 1.74 | 0.65 |

2.0 Emissions Summary

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.5440 | 34.5707 | 53.0684 | 0.1682 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 17,055.1276 | 17,055.1276 | 1.9494 | 0.9819 | 17,368.5523 |
| 2024 | 121.6040 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.2867 | 15.0382 | 3.6887 | 1.2047 | 4.8934 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.5756 | 0.9904 | 21,333.2247 |
| Maximum | 121.6040 | 35.9415 | 73.2645 | 0.2085 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.9494 | 0.9904 | 21,333.2247 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.5440 | 34.5707 | 53.0684 | 0.1682 | 11.6057 | 1.4256 | 12.4433 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 17,055.1276 | 17,055.1276 | 1.9494 | 0.9819 | 17,368.5523 |
| 2024 | 121.6040 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.2867 | 15.0382 | 3.6887 | 1.2047 | 4.8934 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.5756 | 0.9904 | 21,333.2247 |
| Maximum | 121.6040 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.4256 | 15.0382 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.9494 | 0.9904 | 21,333.2247 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 24.62 | 0.00 | 24.07 | 43.39 | 0.00 | 37.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Mobile | 3.4260 | 115.7359 | 39.5591 | 0.6638 | 27.4117 | 1.5277 | 28.9394 | 7.6728 | 1.4610 | 9.1338 | | 69,700.8441 | 69,700.8441 | 0.2518 | 9.2764 | 72,471.5173 |
| Total | 37.3665 | 116.3904 | 40.3863 | 0.6677 | 27.4117 | 1.5782 | 28.9899 | 7.6728 | 1.5115 | 9.1843 | | 70,483.7694 | 70,483.7694 | 0.2684 | 9.2908 | 73,259.1307 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Mobile | 3.4260 | 115.7359 | 39.5591 | 0.6638 | 27.4117 | 1.5277 | 28.9394 | 7.6728 | 1.4610 | 9.1338 | | 69,700.8441 | 69,700.8441 | 0.2518 | 9.2764 | 72,471.5173 |
| Total | 37.3665 | 116.3904 | 40.3863 | 0.6677 | 27.4117 | 1.5782 | 28.9899 | 7.6728 | 1.5115 | 9.1843 | | 70,483.7694 | 70,483.7694 | 0.2684 | 9.2908 | 73,259.1307 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4455 | 9.5911 | 5.0998 | 0.0540 | 1.8343 | 0.0938 | 1.9281 | 0.5284 | 0.0897 | 0.6180 | | 5,674.8562 | 5,674.8562 | 0.0266 | 0.7737 | 5,906.0853 |
| Worker | 3.5258 | 2.1092 | 31.7246 | 0.0873 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 8,825.0615 | 8,825.0615 | 0.1978 | 0.2082 | 8,892.0609 |
| Total | 3.9713 | 11.7003 | 36.8244 | 0.1413 | 11.6057 | 0.1379 | 11.7436 | 3.1196 | 0.1303 | 3.2499 | | 14,499.9177 | 14,499.9177 | 0.2244 | 0.9819 | 14,798.1463 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4455 | 9.5911 | 5.0998 | 0.0540 | 1.8343 | 0.0938 | 1.9281 | 0.5284 | 0.0897 | 0.6180 | | 5,674.8562 | 5,674.8562 | 0.0266 | 0.7737 | 5,906.0853 |
| Worker | 3.5258 | 2.1092 | 31.7246 | 0.0873 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 8,825.0615 | 8,825.0615 | 0.1978 | 0.2082 | 8,892.0609 |
| Total | 3.9713 | 11.7003 | 36.8244 | 0.1413 | 11.6057 | 0.1379 | 11.7436 | 3.1196 | 0.1303 | 3.2499 | | 14,499.9177 | 14,499.9177 | 0.2244 | 0.9819 | 14,798.1463 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4305 | 9.4847 | 4.9272 | 0.0528 | 1.8343 | 0.0932 | 1.9276 | 0.5284 | 0.0892 | 0.6175 | | 5,551.5397 | 5,551.5397 | 0.0254 | 0.7560 | 5,777.4523 |
| Worker | 3.2647 | 1.8610 | 29.3000 | 0.0844 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 8,529.3560 | 8,529.3560 | 0.1772 | 0.1922 | 8,591.0600 |
| Total | 3.6952 | 11.3456 | 34.2273 | 0.1372 | 11.6057 | 0.1348 | 11.7405 | 3.1196 | 0.1275 | 3.2471 | | 14,080.8957 | 14,080.8957 | 0.2025 | 0.9482 | 14,368.5123 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4305 | 9.4847 | 4.9272 | 0.0528 | 1.8343 | 0.0932 | 1.9276 | 0.5284 | 0.0892 | 0.6175 | | 5,551.5397 | 5,551.5397 | 0.0254 | 0.7560 | 5,777.4523 |
| Worker | 3.2647 | 1.8610 | 29.3000 | 0.0844 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 8,529.3560 | 8,529.3560 | 0.1772 | 0.1922 | 8,591.0600 |
| Total | 3.6952 | 11.3456 | 34.2273 | 0.1372 | 11.6057 | 0.1348 | 11.7405 | 3.1196 | 0.1275 | 3.2471 | | 14,080.8957 | 14,080.8957 | 0.2025 | 0.9482 | 14,368.5123 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 113.6469 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 113.8276 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |
| Total | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 113.6469 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 113.8276 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |
| Total | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.4260 | 115.7359 | 39.5591 | 0.6638 | 27.4117 | 1.5277 | 28.9394 | 7.6728 | 1.4610 | 9.1338 | | 69,700.84 41 | 69,700.84 41 | 0.2518 | 9.2764 | 72,471.51 73 |
| Unmitigated | 3.4260 | 115.7359 | 39.5591 | 0.6638 | 27.4117 | 1.5277 | 28.9394 | 7.6728 | 1.4610 | 9.1338 | | 69,700.84 41 | 69,700.84 41 | 0.2518 | 9.2764 | 72,471.51 73 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |
| Total | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| NaturalGas Unmitigated | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 6649.76 | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Total | | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 6.64976 | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Total | | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

6.0 Area Detail

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Unmitigated | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt B - Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 1,207.54 | 1000sqft | 64.14 | 1,207,544.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative B, 100% high cube (non-refrigerated). Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse (non-refrigerated). 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 781 total truck trips. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|--------------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,207,540.00 | 1,207,544.00 |
| tblLandUse | LotAcreage | 27.72 | 64.14 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.65 |
| tblVehicleTrips | SU_TR | 1.74 | 0.65 |
| tblVehicleTrips | WD_TR | 1.74 | 0.65 |

2.0 Emissions Summary

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.2963 | 34.5722 | 46.2393 | 0.1586 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 16,082.17 42 | 16,082.17 42 | 1.9493 | 0.9887 | 16,397.48 87 |
| 2024 | 121.3401 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.2870 | 15.0386 | 3.6887 | 1.2050 | 4.8937 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.5713 | 0.9973 | 20,187.97 86 |
| Maximum | 121.3401 | 36.6190 | 65.5855 | 0.1971 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.9493 | 0.9973 | 20,187.97 86 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.2963 | 34.5722 | 46.2393 | 0.1586 | 11.6057 | 1.4256 | 12.4436 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 16,082.17 42 | 16,082.17 42 | 1.9493 | 0.9887 | 16,397.48 87 |
| 2024 | 121.3401 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.2870 | 15.0386 | 3.6887 | 1.2050 | 4.8937 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.5713 | 0.9973 | 20,187.97 86 |
| Maximum | 121.3401 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.4256 | 15.0386 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.9493 | 0.9973 | 20,187.97 86 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 24.62 | 0.00 | 24.07 | 43.39 | 0.00 | 37.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Mobile | 3.3180 | 121.9709 | 39.5021 | 0.6642 | 27.4117 | 1.5285 | 28.9402 | 7.6728 | 1.4618 | 9.1345 | | 69,748.8697 | 69,748.8697 | 0.2446 | 9.2999 | 72,526.3463 |
| Total | 37.2585 | 122.6254 | 40.3293 | 0.6682 | 27.4117 | 1.5790 | 28.9907 | 7.6728 | 1.5123 | 9.1851 | | 70,531.7950 | 70,531.7950 | 0.2611 | 9.3142 | 73,313.9597 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Mobile | 3.3180 | 121.9709 | 39.5021 | 0.6642 | 27.4117 | 1.5285 | 28.9402 | 7.6728 | 1.4618 | 9.1345 | | 69,748.8697 | 69,748.8697 | 0.2446 | 9.2999 | 72,526.3463 |
| Total | 37.2585 | 122.6254 | 40.3293 | 0.6682 | 27.4117 | 1.5790 | 28.9907 | 7.6728 | 1.5123 | 9.1851 | | 70,531.7950 | 70,531.7950 | 0.2611 | 9.3142 | 73,313.9597 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4150 | 10.2159 | 5.2824 | 0.0542 | 1.8343 | 0.0941 | 1.9284 | 0.5284 | 0.0900 | 0.6183 | | 5,692.2889 | 5,692.2889 | 0.0253 | 0.7774 | 5,924.5792 |
| Worker | 3.3086 | 2.1657 | 24.7130 | 0.0775 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 7,834.6754 | 7,834.6754 | 0.1942 | 0.2113 | 7,902.5035 |
| Total | 3.7236 | 12.3816 | 29.9953 | 0.1317 | 11.6057 | 0.1382 | 11.7439 | 3.1196 | 0.1306 | 3.2502 | | 13,526.9642 | 13,526.9642 | 0.2195 | 0.9887 | 13,827.0826 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4150 | 10.2159 | 5.2824 | 0.0542 | 1.8343 | 0.0941 | 1.9284 | 0.5284 | 0.0900 | 0.6183 | | 5,692.2889 | 5,692.2889 | 0.0253 | 0.7774 | 5,924.5792 |
| Worker | 3.3086 | 2.1657 | 24.7130 | 0.0775 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 7,834.6754 | 7,834.6754 | 0.1942 | 0.2113 | 7,902.5035 |
| Total | 3.7236 | 12.3816 | 29.9953 | 0.1317 | 11.6057 | 0.1382 | 11.7439 | 3.1196 | 0.1306 | 3.2502 | | 13,526.9642 | 13,526.9642 | 0.2195 | 0.9887 | 13,827.0826 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4001 | 10.1023 | 5.1104 | 0.0530 | 1.8343 | 0.0936 | 1.9279 | 0.5284 | 0.0895 | 0.6178 | | 5,568.7742 | 5,568.7742 | 0.0241 | 0.7595 | 5,795.7102 |
| Worker | 3.0731 | 1.9101 | 22.8535 | 0.0749 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 7,574.5879 | 7,574.5879 | 0.1746 | 0.1950 | 7,637.0616 |
| Total | 3.4733 | 12.0124 | 27.9640 | 0.1279 | 11.6057 | 0.1351 | 11.7408 | 3.1196 | 0.1278 | 3.2474 | | 13,143.3621 | 13,143.3621 | 0.1988 | 0.9545 | 13,432.7717 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4001 | 10.1023 | 5.1104 | 0.0530 | 1.8343 | 0.0936 | 1.9279 | 0.5284 | 0.0895 | 0.6178 | | 5,568.7742 | 5,568.7742 | 0.0241 | 0.7595 | 5,795.7102 |
| Worker | 3.0731 | 1.9101 | 22.8535 | 0.0749 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 7,574.5879 | 7,574.5879 | 0.1746 | 0.1950 | 7,637.0616 |
| Total | 3.4733 | 12.0124 | 27.9640 | 0.1279 | 11.6057 | 0.1351 | 11.7408 | 3.1196 | 0.1278 | 3.2474 | | 13,143.3621 | 13,143.3621 | 0.1988 | 0.9545 | 13,432.7717 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 113.6469 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 113.8276 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |
| Total | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 113.6469 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 113.8276 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |
| Total | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.3180 | 121.9709 | 39.5021 | 0.6642 | 27.4117 | 1.5285 | 28.9402 | 7.6728 | 1.4618 | 9.1345 | | 69,748.86 97 | 69,748.86 97 | 0.2446 | 9.2999 | 72,526.34 63 |
| Unmitigated | 3.3180 | 121.9709 | 39.5021 | 0.6642 | 27.4117 | 1.5285 | 28.9402 | 7.6728 | 1.4618 | 9.1345 | | 69,748.86 97 | 69,748.86 97 | 0.2446 | 9.2999 | 72,526.34 63 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |
| Total | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| NaturalGas Unmitigated | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 6649.76 | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Total | | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 6.64976 | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Total | | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

6.0 Area Detail

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Unmitigated | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt B - Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 1,207.54 | 1000sqft | 64.14 | 1,207,544.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative B, 100% high cube (non-refrigerated). Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse (non-refrigerated). 1272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 781 total truck trips. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|--------------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,207,540.00 | 1,207,544.00 |
| tblLandUse | LotAcreage | 27.72 | 64.14 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.65 |
| tblVehicleTrips | SU_TR | 1.74 | 0.65 |
| tblVehicleTrips | WD_TR | 1.74 | 0.65 |

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.5439 | 3.8119 | 4.8860 | 0.0146 | 1.5741 | 0.1410 | 1.7151 | 0.5670 | 0.1310 | 0.6980 | 0.0000 | 1,330.8597 | 1,330.8597 | 0.1454 | 0.0636 | 1,353.4583 |
| 2024 | 9.1834 | 3.3718 | 6.2944 | 0.0207 | 1.5162 | 0.1044 | 1.6206 | 0.4077 | 0.0983 | 0.5060 | 0.0000 | 1,899.2228 | 1,899.2228 | 0.1046 | 0.1076 | 1,933.9037 |
| Maximum | 9.1834 | 3.8119 | 6.2944 | 0.0207 | 1.5741 | 0.1410 | 1.7151 | 0.5670 | 0.1310 | 0.6980 | 0.0000 | 1,899.2228 | 1,899.2228 | 0.1454 | 0.1076 | 1,933.9037 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.5439 | 3.8119 | 4.8860 | 0.0146 | 1.1212 | 0.1410 | 1.2622 | 0.3598 | 0.1310 | 0.4908 | 0.0000 | 1,330.8591 | 1,330.8591 | 0.1454 | 0.0636 | 1,353.4577 |
| 2024 | 9.1834 | 3.3718 | 6.2944 | 0.0207 | 1.5162 | 0.1044 | 1.6206 | 0.4077 | 0.0983 | 0.5060 | 0.0000 | 1,899.2224 | 1,899.2224 | 0.1046 | 0.1076 | 1,933.9033 |
| Maximum | 9.1834 | 3.8119 | 6.2944 | 0.0207 | 1.5162 | 0.1410 | 1.6206 | 0.4077 | 0.1310 | 0.5060 | 0.0000 | 1,899.2224 | 1,899.2224 | 0.1454 | 0.1076 | 1,933.9033 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 14.66 | 0.00 | 13.58 | 21.26 | 0.00 | 17.21 | 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 | 1-1-2023 | 3-31-2023 | 1.0702 | 1.0702 |
| 2 | 4-1-2023 | 6-30-2023 | 1.2027 | 1.2027 |
| 3 | 7-1-2023 | 9-30-2023 | 1.0392 | 1.0392 |
| 4 | 10-1-2023 | 12-31-2023 | 1.0535 | 1.0535 |
| 5 | 1-1-2024 | 3-31-2024 | 0.9880 | 0.9880 |
| 6 | 4-1-2024 | 6-30-2024 | 2.2172 | 2.2172 |
| 7 | 7-1-2024 | 9-30-2024 | 5.0284 | 5.0284 |
| | | Highest | 5.0284 | 5.0284 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Energy | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 664.4682 | 664.4682 | 0.0476 | 7.8500e-003 | 667.9975 |
| Mobile | 0.6097 | 22.4052 | 7.1359 | 0.1207 | 4.9118 | 0.2778 | 5.1896 | 1.3775 | 0.2656 | 1.6432 | 0.0000 | 11,497.6956 | 11,497.6956 | 0.0407 | 1.5338 | 11,955.7859 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 230.4130 | 0.0000 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 88.5911 | 644.8339 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | 6.8015 | 22.5244 | 7.2610 | 0.1214 | 4.9118 | 0.2869 | 5.1987 | 1.3775 | 0.2748 | 1.6523 | 319.0041 | 12,807.0467 | 13,126.0508 | 22.8590 | 1.7631 | 14,222.9303 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Energy | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 664.4682 | 664.4682 | 0.0476 | 7.8500e-003 | 667.9975 |
| Mobile | 0.6097 | 22.4052 | 7.1359 | 0.1207 | 4.9118 | 0.2778 | 5.1896 | 1.3775 | 0.2656 | 1.6432 | 0.0000 | 11,497.6956 | 11,497.6956 | 0.0407 | 1.5338 | 11,955.7859 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 230.4130 | 0.0000 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 88.5911 | 644.8339 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | 6.8015 | 22.5244 | 7.2610 | 0.1214 | 4.9118 | 0.2869 | 5.1987 | 1.3775 | 0.2748 | 1.6523 | 319.0041 | 12,807.0467 | 13,126.0508 | 22.8590 | 1.7631 | 14,222.9303 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | |
|---|-----------------------|-----------------------|-----------|------------|---|-----|
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

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| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3931 | 0.0000 | 0.3931 | 0.2021 | 0.0000 | 0.2021 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.3931 | 0.0253 | 0.4185 | 0.2021 | 0.0233 | 0.2253 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1592 | 0.0000 | 0.1592 | 0.0818 | 0.0000 | 0.0818 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.1592 | 0.0253 | 0.1845 | 0.0818 | 0.0233 | 0.1051 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |

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3.2 Site Preparation - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

3.3 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3681 | 0.0000 | 0.3681 | 0.1462 | 0.0000 | 0.1462 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.3681 | 0.0570 | 0.4251 | 0.1462 | 0.0524 | 0.1986 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1491 | 0.0000 | 0.1491 | 0.0592 | 0.0000 | 0.0592 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.1491 | 0.0570 | 0.2061 | 0.0592 | 0.0524 | 0.1116 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |

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3.3 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0299 | 0.7084 | 0.3637 | 3.7800e-003 | 0.1265 | 6.5700e-003 | 0.1331 | 0.0365 | 6.2900e-003 | 0.0428 | 0.0000 | 360.8371 | 360.8371 | 1.6600e-003 | 0.0493 | 375.5651 |
| Worker | 0.2132 | 0.1619 | 1.8580 | 5.5800e-003 | 0.6718 | 3.0900e-003 | 0.6749 | 0.1784 | 2.8400e-003 | 0.1812 | 0.0000 | 511.6340 | 511.6340 | 0.0127 | 0.0141 | 516.1373 |
| Total | 0.2431 | 0.8704 | 2.2218 | 9.3600e-003 | 0.7983 | 9.6600e-003 | 0.8080 | 0.2149 | 9.1300e-003 | 0.2240 | 0.0000 | 872.4711 | 872.4711 | 0.0143 | 0.0633 | 891.7024 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0299 | 0.7084 | 0.3637 | 3.7800e-003 | 0.1265 | 6.5700e-003 | 0.1331 | 0.0365 | 6.2900e-003 | 0.0428 | 0.0000 | 360.8371 | 360.8371 | 1.6600e-003 | 0.0493 | 375.5651 |
| Worker | 0.2132 | 0.1619 | 1.8580 | 5.5800e-003 | 0.6718 | 3.0900e-003 | 0.6749 | 0.1784 | 2.8400e-003 | 0.1812 | 0.0000 | 511.6340 | 511.6340 | 0.0127 | 0.0141 | 516.1373 |
| Total | 0.2431 | 0.8704 | 2.2218 | 9.3600e-003 | 0.7983 | 9.6600e-003 | 0.8080 | 0.2149 | 9.1300e-003 | 0.2240 | 0.0000 | 872.4711 | 872.4711 | 0.0143 | 0.0633 | 891.7024 |

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |

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3.4 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0496 | 1.2005 | 0.6029 | 6.3500e-003 | 0.2169 | 0.0112 | 0.2281 | 0.0626 | 0.0107 | 0.0733 | 0.0000 | 605.1445 | 605.1445 | 2.7200e-003 | 0.0825 | 629.8092 |
| Worker | 0.3389 | 0.2448 | 2.9454 | 9.2500e-003 | 1.1516 | 4.9900e-003 | 1.1566 | 0.3058 | 4.5900e-003 | 0.3104 | 0.0000 | 847.8987 | 847.8987 | 0.0195 | 0.0222 | 855.0075 |
| Total | 0.3884 | 1.4453 | 3.5483 | 0.0156 | 1.3685 | 0.0162 | 1.3847 | 0.3684 | 0.0153 | 0.3837 | 0.0000 | 1,453.0432 | 1,453.0432 | 0.0222 | 0.1048 | 1,484.8167 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |

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3.4 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0496 | 1.2005 | 0.6029 | 6.3500e-003 | 0.2169 | 0.0112 | 0.2281 | 0.0626 | 0.0107 | 0.0733 | 0.0000 | 605.1445 | 605.1445 | 2.7200e-003 | 0.0825 | 629.8092 |
| Worker | 0.3389 | 0.2448 | 2.9454 | 9.2500e-003 | 1.1516 | 4.9900e-003 | 1.1566 | 0.3058 | 4.5900e-003 | 0.3104 | 0.0000 | 847.8987 | 847.8987 | 0.0195 | 0.0222 | 855.0075 |
| Total | 0.3884 | 1.4453 | 3.5483 | 0.0156 | 1.3685 | 0.0162 | 1.3847 | 0.3684 | 0.0153 | 0.3837 | 0.0000 | 1,453.0432 | 1,453.0432 | 0.0222 | 0.1048 | 1,484.8167 |

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 8.5235 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |
| Total | 8.5371 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |

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3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |
| Total | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 8.5235 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |
| Total | 8.5371 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |

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3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |
| Total | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0379 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |

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3.6 Paving - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0379 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |

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3.6 Paving - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.6097 | 22.4052 | 7.1359 | 0.1207 | 4.9118 | 0.2778 | 5.1896 | 1.3775 | 0.2656 | 1.6432 | 0.0000 | 11,497.6956 | 11,497.6956 | 0.0407 | 1.5338 | 11,955.7859 |
| Unmitigated | 0.6097 | 22.4052 | 7.1359 | 0.1207 | 4.9118 | 0.2778 | 5.1896 | 1.3775 | 0.2656 | 1.6432 | 0.0000 | 11,497.6956 | 11,497.6956 | 0.0407 | 1.5338 | 11,955.7859 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |
| Total | 780.07 | 780.07 | 780.07 | 11,357,831 | 11,357,831 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|----------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | 40.00 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 534.9455 | 534.9455 | 0.0452 | 5.4700e-003 | 537.7052 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 534.9455 | 534.9455 | 0.0452 | 5.4700e-003 | 537.7052 |
| NaturalGas Mitigated | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |
| NaturalGas Unmitigated | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 2.42716e+006 | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |
| Total | | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 2.42716e+006 | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |
| Total | | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |

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5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 214900 | 38.1116 | 3.2200e-003 | 3.9000e-004 | 38.3082 |
| Unrefrigerated Warehouse-No Rail | 2.8015e+006 | 496.8339 | 0.0419 | 5.0800e-003 | 499.3970 |
| Total | | 534.9455 | 0.0452 | 5.4700e-003 | 537.7052 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 214900 | 38.1116 | 3.2200e-003 | 3.9000e-004 | 38.3082 |
| Unrefrigerated Warehouse-No Rail | 2.8015e+006 | 496.8339 | 0.0419 | 5.0800e-003 | 499.3970 |
| Total | | 534.9455 | 0.0452 | 5.4700e-003 | 537.7052 |

6.0 Area Detail

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Unmitigated | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.4206 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 4.7558 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.3200e-003 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Total | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.4206 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 4.7558 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.3200e-003 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Total | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------------|
| Category | MT/yr | | | |
| Mitigated | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |
| Unmitigated | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|------------------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 279.244 / 0 | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |
| Total | | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 279.244 / 0 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Unmitigated | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 1135.09 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Total | | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 1135.09 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Total | | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

9.0 Operational Offroad

Alt B - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

CalEEMod Runs

Alternative B – Passenger Vehicles Only Run

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run

Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 1,207.54 | 1000sqft | 64.14 | 1,207,544.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative B - 100% high cube (non-refrigerated). Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse (non-refrigerated). 1,272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1788 passenger vehicle trips - applied same passenger vehicle trip rate as proposed Project. Assumes Sat trip rate is 10% of daily, Sun is 5%. Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are in Light Duty Auto (LDA).

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|--------------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,207,540.00 | 1,207,544.00 |
| tblLandUse | LotAcreage | 27.72 | 64.14 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.5440 | 34.5707 | 53.0684 | 0.1682 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 17,055.1276 | 17,055.1276 | 1.9494 | 0.9819 | 17,368.5523 |
| 2024 | 121.6040 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.2867 | 15.0382 | 3.6887 | 1.2047 | 4.8934 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.5756 | 0.9904 | 21,333.2247 |
| Maximum | 121.6040 | 35.9415 | 73.2645 | 0.2085 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.9494 | 0.9904 | 21,333.2247 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.5440 | 34.5707 | 53.0684 | 0.1682 | 11.6057 | 1.4256 | 12.4433 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 17,055.1276 | 17,055.1276 | 1.9494 | 0.9819 | 17,368.5523 |
| 2024 | 121.6040 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.2867 | 15.0382 | 3.6887 | 1.2047 | 4.8934 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.5756 | 0.9904 | 21,333.2247 |
| Maximum | 121.6040 | 35.9415 | 73.2645 | 0.2085 | 13.7516 | 1.4256 | 15.0382 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 20,998.7033 | 20,998.7033 | 1.9494 | 0.9904 | 21,333.2247 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Mobile | 2.5602 | 2.3133 | 46.0894 | 0.1568 | 20.0800 | 0.0769 | 20.1569 | 5.3230 | 0.0708 | 5.3938 | | 15,846.2395 | 15,846.2395 | 0.2723 | 0.3215 | 15,948.8485 |
| Total | 36.5007 | 2.9678 | 46.9166 | 0.1607 | 20.0800 | 0.1274 | 20.2074 | 5.3230 | 0.1213 | 5.4443 | | 16,629.1647 | 16,629.1647 | 0.2889 | 0.3358 | 16,736.4619 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Mobile | 2.5602 | 2.3133 | 46.0894 | 0.1568 | 20.0800 | 0.0769 | 20.1569 | 5.3230 | 0.0708 | 5.3938 | | 15,846.2395 | 15,846.2395 | 0.2723 | 0.3215 | 15,948.8485 |
| Total | 36.5007 | 2.9678 | 46.9166 | 0.1607 | 20.0800 | 0.1274 | 20.2074 | 5.3230 | 0.1213 | 5.4443 | | 16,629.1647 | 16,629.1647 | 0.2889 | 0.3358 | 16,736.4619 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4455 | 9.5911 | 5.0998 | 0.0540 | 1.8343 | 0.0938 | 1.9281 | 0.5284 | 0.0897 | 0.6180 | | 5,674.8562 | 5,674.8562 | 0.0266 | 0.7737 | 5,906.0853 |
| Worker | 3.5258 | 2.1092 | 31.7246 | 0.0873 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 8,825.0615 | 8,825.0615 | 0.1978 | 0.2082 | 8,892.0609 |
| Total | 3.9713 | 11.7003 | 36.8244 | 0.1413 | 11.6057 | 0.1379 | 11.7436 | 3.1196 | 0.1303 | 3.2499 | | 14,499.9177 | 14,499.9177 | 0.2244 | 0.9819 | 14,798.1463 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4455 | 9.5911 | 5.0998 | 0.0540 | 1.8343 | 0.0938 | 1.9281 | 0.5284 | 0.0897 | 0.6180 | | 5,674.8562 | 5,674.8562 | 0.0266 | 0.7737 | 5,906.0853 |
| Worker | 3.5258 | 2.1092 | 31.7246 | 0.0873 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 8,825.0615 | 8,825.0615 | 0.1978 | 0.2082 | 8,892.0609 |
| Total | 3.9713 | 11.7003 | 36.8244 | 0.1413 | 11.6057 | 0.1379 | 11.7436 | 3.1196 | 0.1303 | 3.2499 | | 14,499.9177 | 14,499.9177 | 0.2244 | 0.9819 | 14,798.1463 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4305 | 9.4847 | 4.9272 | 0.0528 | 1.8343 | 0.0932 | 1.9276 | 0.5284 | 0.0892 | 0.6175 | | 5,551.5397 | 5,551.5397 | 0.0254 | 0.7560 | 5,777.4523 |
| Worker | 3.2647 | 1.8610 | 29.3000 | 0.0844 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 8,529.3560 | 8,529.3560 | 0.1772 | 0.1922 | 8,591.0600 |
| Total | 3.6952 | 11.3456 | 34.2273 | 0.1372 | 11.6057 | 0.1348 | 11.7405 | 3.1196 | 0.1275 | 3.2471 | | 14,080.8957 | 14,080.8957 | 0.2025 | 0.9482 | 14,368.5123 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4305 | 9.4847 | 4.9272 | 0.0528 | 1.8343 | 0.0932 | 1.9276 | 0.5284 | 0.0892 | 0.6175 | | 5,551.5397 | 5,551.5397 | 0.0254 | 0.7560 | 5,777.4523 |
| Worker | 3.2647 | 1.8610 | 29.3000 | 0.0844 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 8,529.3560 | 8,529.3560 | 0.1772 | 0.1922 | 8,591.0600 |
| Total | 3.6952 | 11.3456 | 34.2273 | 0.1372 | 11.6057 | 0.1348 | 11.7405 | 3.1196 | 0.1275 | 3.2471 | | 14,080.8957 | 14,080.8957 | 0.2025 | 0.9482 | 14,368.5123 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 113.6469 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 113.8276 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |
| Total | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 113.6469 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 113.8276 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |
| Total | 0.6529 | 0.3722 | 5.8600 | 0.0169 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,705.8712 | 1,705.8712 | 0.0354 | 0.0384 | 1,718.2120 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.5602 | 2.3133 | 46.0894 | 0.1568 | 20.0800 | 0.0769 | 20.1569 | 5.3230 | 0.0708 | 5.3938 | | 15,846.23 95 | 15,846.23 95 | 0.2723 | 0.3215 | 15,948.84 85 |
| Unmitigated | 2.5602 | 2.3133 | 46.0894 | 0.1568 | 20.0800 | 0.0769 | 20.1569 | 5.3230 | 0.0708 | 5.3938 | | 15,846.23 95 | 15,846.23 95 | 0.2723 | 0.3215 | 15,948.84 85 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|--------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 1,798.03 | 179.92 | 84.53 | 7,074,229 | 7,074,229 |
| Total | 1,798.03 | 179.92 | 84.53 | 7,074,229 | 7,074,229 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 14.70 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| NaturalGas Unmitigated | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 6649.76 | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Total | | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 6.64976 | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Total | | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

6.0 Area Detail

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Unmitigated | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run

Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 1,207.54 | 1000sqft | 64.14 | 1,207,544.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative B - 100% high cube (non-refrigerated). Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse (non-refrigerated). 1,272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1788 passenger vehicle trips - applied same passenger vehicle trip rate as proposed Project. Assumes Sat trip rate is 10% of daily, Sun is 5%. Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are in Light Duty Auto (LDA).

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|--------------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,207,540.00 | 1,207,544.00 |
| tblLandUse | LotAcreage | 27.72 | 64.14 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.2963 | 34.5722 | 46.2393 | 0.1586 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 16,082.17 42 | 16,082.17 42 | 1.9493 | 0.9887 | 16,397.48 87 |
| 2024 | 121.3401 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.2870 | 15.0386 | 3.6887 | 1.2050 | 4.8937 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.5713 | 0.9973 | 20,187.97 86 |
| Maximum | 121.3401 | 36.6190 | 65.5855 | 0.1971 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.9493 | 0.9973 | 20,187.97 86 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 5.2963 | 34.5722 | 46.2393 | 0.1586 | 11.6057 | 1.4256 | 12.4436 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 16,082.17 42 | 16,082.17 42 | 1.9493 | 0.9887 | 16,397.48 87 |
| 2024 | 121.3401 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.2870 | 15.0386 | 3.6887 | 1.2050 | 4.8937 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.5713 | 0.9973 | 20,187.97 86 |
| Maximum | 121.3401 | 36.6190 | 65.5855 | 0.1971 | 13.7516 | 1.4256 | 15.0386 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 19,851.49 51 | 19,851.49 51 | 1.9493 | 0.9973 | 20,187.97 86 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Mobile | 2.0383 | 2.3643 | 36.3516 | 0.1376 | 20.0800 | 0.0769 | 20.1569 | 5.3230 | 0.0708 | 5.3938 | | 13,908.3362 | 13,908.3362 | 0.2765 | 0.3255 | 14,012.2583 |
| Total | 35.9787 | 3.0188 | 37.1788 | 0.1415 | 20.0800 | 0.1274 | 20.2074 | 5.3230 | 0.1213 | 5.4443 | | 14,691.2614 | 14,691.2614 | 0.2930 | 0.3399 | 14,799.8717 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Energy | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Mobile | 2.0383 | 2.3643 | 36.3516 | 0.1376 | 20.0800 | 0.0769 | 20.1569 | 5.3230 | 0.0708 | 5.3938 | | 13,908.3362 | 13,908.3362 | 0.2765 | 0.3255 | 14,012.2583 |
| Total | 35.9787 | 3.0188 | 37.1788 | 0.1415 | 20.0800 | 0.1274 | 20.2074 | 5.3230 | 0.1213 | 5.4443 | | 14,691.2614 | 14,691.2614 | 0.2930 | 0.3399 | 14,799.8717 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4150 | 10.2159 | 5.2824 | 0.0542 | 1.8343 | 0.0941 | 1.9284 | 0.5284 | 0.0900 | 0.6183 | | 5,692.2889 | 5,692.2889 | 0.0253 | 0.7774 | 5,924.5792 |
| Worker | 3.3086 | 2.1657 | 24.7130 | 0.0775 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 7,834.6754 | 7,834.6754 | 0.1942 | 0.2113 | 7,902.5035 |
| Total | 3.7236 | 12.3816 | 29.9953 | 0.1317 | 11.6057 | 0.1382 | 11.7439 | 3.1196 | 0.1306 | 3.2502 | | 13,526.9642 | 13,526.9642 | 0.2195 | 0.9887 | 13,827.0826 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4150 | 10.2159 | 5.2824 | 0.0542 | 1.8343 | 0.0941 | 1.9284 | 0.5284 | 0.0900 | 0.6183 | | 5,692.2889 | 5,692.2889 | 0.0253 | 0.7774 | 5,924.5792 |
| Worker | 3.3086 | 2.1657 | 24.7130 | 0.0775 | 9.7714 | 0.0441 | 9.8155 | 2.5913 | 0.0406 | 2.6319 | | 7,834.6754 | 7,834.6754 | 0.1942 | 0.2113 | 7,902.5035 |
| Total | 3.7236 | 12.3816 | 29.9953 | 0.1317 | 11.6057 | 0.1382 | 11.7439 | 3.1196 | 0.1306 | 3.2502 | | 13,526.9642 | 13,526.9642 | 0.2195 | 0.9887 | 13,827.0826 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4001 | 10.1023 | 5.1104 | 0.0530 | 1.8343 | 0.0936 | 1.9279 | 0.5284 | 0.0895 | 0.6178 | | 5,568.7742 | 5,568.7742 | 0.0241 | 0.7595 | 5,795.7102 |
| Worker | 3.0731 | 1.9101 | 22.8535 | 0.0749 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 7,574.5879 | 7,574.5879 | 0.1746 | 0.1950 | 7,637.0616 |
| Total | 3.4733 | 12.0124 | 27.9640 | 0.1279 | 11.6057 | 0.1351 | 11.7408 | 3.1196 | 0.1278 | 3.2474 | | 13,143.3621 | 13,143.3621 | 0.1988 | 0.9545 | 13,432.7717 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.4001 | 10.1023 | 5.1104 | 0.0530 | 1.8343 | 0.0936 | 1.9279 | 0.5284 | 0.0895 | 0.6178 | | 5,568.7742 | 5,568.7742 | 0.0241 | 0.7595 | 5,795.7102 |
| Worker | 3.0731 | 1.9101 | 22.8535 | 0.0749 | 9.7714 | 0.0416 | 9.8129 | 2.5913 | 0.0383 | 2.6295 | | 7,574.5879 | 7,574.5879 | 0.1746 | 0.1950 | 7,637.0616 |
| Total | 3.4733 | 12.0124 | 27.9640 | 0.1279 | 11.6057 | 0.1351 | 11.7408 | 3.1196 | 0.1278 | 3.2474 | | 13,143.3621 | 13,143.3621 | 0.1988 | 0.9545 | 13,432.7717 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 113.6469 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 113.8276 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |
| Total | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|-----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 113.6469 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 113.8276 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |
| Total | 0.6146 | 0.3820 | 4.5707 | 0.0150 | 1.9543 | 8.3100e-003 | 1.9626 | 0.5183 | 7.6500e-003 | 0.5259 | | 1,514.9176 | 1,514.9176 | 0.0349 | 0.0390 | 1,527.4123 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.9046 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.8927 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.0383 | 2.3643 | 36.3516 | 0.1376 | 20.0800 | 0.0769 | 20.1569 | 5.3230 | 0.0708 | 5.3938 | | 13,908.33 62 | 13,908.33 62 | 0.2765 | 0.3255 | 14,012.25 83 |
| Unmitigated | 2.0383 | 2.3643 | 36.3516 | 0.1376 | 20.0800 | 0.0769 | 20.1569 | 5.3230 | 0.0708 | 5.3938 | | 13,908.33 62 | 13,908.33 62 | 0.2765 | 0.3255 | 14,012.25 83 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|--------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 1,798.03 | 179.92 | 84.53 | 7,074,229 | 7,074,229 |
| Total | 1,798.03 | 179.92 | 84.53 | 7,074,229 | 7,074,229 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 14.70 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| NaturalGas Unmitigated | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 6649.76 | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Total | | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 6.64976 | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |
| Total | | 0.0717 | 0.6519 | 0.5476 | 3.9100e-003 | | 0.0496 | 0.0496 | | 0.0496 | 0.0496 | | 782.3250 | 782.3250 | 0.0150 | 0.0143 | 786.9740 |

6.0 Area Detail

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Unmitigated | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.7840 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 26.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0258 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |
| Total | 33.8687 | 2.5400e-003 | 0.2796 | 2.0000e-005 | | 1.0000e-003 | 1.0000e-003 | | 1.0000e-003 | 1.0000e-003 | | 0.6002 | 0.6002 | 1.5700e-003 | | 0.6394 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run

Mojave Desert AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 1,207.54 | 1000sqft | 64.14 | 1,207,544.00 | 0 |
| Parking Lot | 1,535.00 | Space | 13.81 | 614,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative B - 100% high cube (non-refrigerated). Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 1,207,544 sq ft high cube warehouse (non-refrigerated). 1,272 standard parking stalls and 263 trailer stalls.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1788 passenger vehicle trips - applied same passenger vehicle trip rate as proposed Project. Assumes Sat trip rate is 10% of daily, Sun is 5%. Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are in Light Duty Auto (LDA).

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|--------------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,207,540.00 | 1,207,544.00 |
| tblLandUse | LotAcreage | 27.72 | 64.14 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.5439 | 3.8119 | 4.8860 | 0.0146 | 1.5741 | 0.1410 | 1.7151 | 0.5670 | 0.1310 | 0.6980 | 0.0000 | 1,330.8597 | 1,330.8597 | 0.1454 | 0.0636 | 1,353.4583 |
| 2024 | 9.1834 | 3.3718 | 6.2944 | 0.0207 | 1.5162 | 0.1044 | 1.6206 | 0.4077 | 0.0983 | 0.5060 | 0.0000 | 1,899.2228 | 1,899.2228 | 0.1046 | 0.1076 | 1,933.9037 |
| Maximum | 9.1834 | 3.8119 | 6.2944 | 0.0207 | 1.5741 | 0.1410 | 1.7151 | 0.5670 | 0.1310 | 0.6980 | 0.0000 | 1,899.2228 | 1,899.2228 | 0.1454 | 0.1076 | 1,933.9037 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.5439 | 3.8119 | 4.8860 | 0.0146 | 1.1212 | 0.1410 | 1.2622 | 0.3598 | 0.1310 | 0.4908 | 0.0000 | 1,330.8591 | 1,330.8591 | 0.1454 | 0.0636 | 1,353.4577 |
| 2024 | 9.1834 | 3.3718 | 6.2944 | 0.0207 | 1.5162 | 0.1044 | 1.6206 | 0.4077 | 0.0983 | 0.5060 | 0.0000 | 1,899.2224 | 1,899.2224 | 0.1046 | 0.1076 | 1,933.9033 |
| Maximum | 9.1834 | 3.8119 | 6.2944 | 0.0207 | 1.5162 | 0.1410 | 1.6206 | 0.4077 | 0.1310 | 0.5060 | 0.0000 | 1,899.2224 | 1,899.2224 | 0.1454 | 0.1076 | 1,933.9033 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 14.66 | 0.00 | 13.58 | 21.26 | 0.00 | 17.21 | 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 | 1-1-2023 | 3-31-2023 | 1.0702 | 1.0702 |
| 2 | 4-1-2023 | 6-30-2023 | 1.2027 | 1.2027 |
| 3 | 7-1-2023 | 9-30-2023 | 1.0392 | 1.0392 |
| 4 | 10-1-2023 | 12-31-2023 | 1.0535 | 1.0535 |
| 5 | 1-1-2024 | 3-31-2024 | 0.9880 | 0.9880 |
| 6 | 4-1-2024 | 6-30-2024 | 2.2172 | 2.2172 |
| 7 | 7-1-2024 | 9-30-2024 | 5.0284 | 5.0284 |
| | | Highest | 5.0284 | 5.0284 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Energy | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 664.4682 | 664.4682 | 0.0476 | 7.8500e-003 | 667.9975 |
| Mobile | 0.2717 | 0.3364 | 5.2218 | 0.0190 | 2.6392 | 0.0103 | 2.6494 | 0.7006 | 9.4600e-003 | 0.7100 | 0.0000 | 1,739.2320 | 1,739.2320 | 0.0344 | 0.0412 | 1,752.3680 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 230.4130 | 0.0000 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 88.5911 | 644.8339 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | 6.4635 | 0.4556 | 5.3469 | 0.0197 | 2.6392 | 0.0194 | 2.6586 | 0.7006 | 0.0186 | 0.7191 | 319.0041 | 3,048.5831 | 3,367.5873 | 22.8528 | 0.2705 | 4,019.5124 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Energy | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 664.4682 | 664.4682 | 0.0476 | 7.8500e-003 | 667.9975 |
| Mobile | 0.2717 | 0.3364 | 5.2218 | 0.0190 | 2.6392 | 0.0103 | 2.6494 | 0.7006 | 9.4600e-003 | 0.7100 | 0.0000 | 1,739.2320 | 1,739.2320 | 0.0344 | 0.0412 | 1,752.3680 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 230.4130 | 0.0000 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 88.5911 | 644.8339 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | 6.4635 | 0.4556 | 5.3469 | 0.0197 | 2.6392 | 0.0194 | 2.6586 | 0.7006 | 0.0186 | 0.7191 | 319.0041 | 3,048.5831 | 3,367.5873 | 22.8528 | 0.2705 | 4,019.5124 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | |
|---|-----------------------|-----------------------|-----------|------------|---|-----|
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 13.81

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,811,316; Non-Residential Outdoor: 603,772; Striped Parking Area: 36,840 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 153.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 765.00 | 299.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3931 | 0.0000 | 0.3931 | 0.2021 | 0.0000 | 0.2021 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.3931 | 0.0253 | 0.4185 | 0.2021 | 0.0233 | 0.2253 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1592 | 0.0000 | 0.1592 | 0.0818 | 0.0000 | 0.0818 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.1592 | 0.0253 | 0.1845 | 0.0818 | 0.0233 | 0.1051 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |

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3.2 Site Preparation - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

3.3 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3681 | 0.0000 | 0.3681 | 0.1462 | 0.0000 | 0.1462 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.3681 | 0.0570 | 0.4251 | 0.1462 | 0.0524 | 0.1986 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1491 | 0.0000 | 0.1491 | 0.0592 | 0.0000 | 0.0592 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.1491 | 0.0570 | 0.2061 | 0.0592 | 0.0524 | 0.1116 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0299 | 0.7084 | 0.3637 | 3.7800e-003 | 0.1265 | 6.5700e-003 | 0.1331 | 0.0365 | 6.2900e-003 | 0.0428 | 0.0000 | 360.8371 | 360.8371 | 1.6600e-003 | 0.0493 | 375.5651 |
| Worker | 0.2132 | 0.1619 | 1.8580 | 5.5800e-003 | 0.6718 | 3.0900e-003 | 0.6749 | 0.1784 | 2.8400e-003 | 0.1812 | 0.0000 | 511.6340 | 511.6340 | 0.0127 | 0.0141 | 516.1373 |
| Total | 0.2431 | 0.8704 | 2.2218 | 9.3600e-003 | 0.7983 | 9.6600e-003 | 0.8080 | 0.2149 | 9.1300e-003 | 0.2240 | 0.0000 | 872.4711 | 872.4711 | 0.0143 | 0.0633 | 891.7024 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0299 | 0.7084 | 0.3637 | 3.7800e-003 | 0.1265 | 6.5700e-003 | 0.1331 | 0.0365 | 6.2900e-003 | 0.0428 | 0.0000 | 360.8371 | 360.8371 | 1.6600e-003 | 0.0493 | 375.5651 |
| Worker | 0.2132 | 0.1619 | 1.8580 | 5.5800e-003 | 0.6718 | 3.0900e-003 | 0.6749 | 0.1784 | 2.8400e-003 | 0.1812 | 0.0000 | 511.6340 | 511.6340 | 0.0127 | 0.0141 | 516.1373 |
| Total | 0.2431 | 0.8704 | 2.2218 | 9.3600e-003 | 0.7983 | 9.6600e-003 | 0.8080 | 0.2149 | 9.1300e-003 | 0.2240 | 0.0000 | 872.4711 | 872.4711 | 0.0143 | 0.0633 | 891.7024 |

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0496 | 1.2005 | 0.6029 | 6.3500e-003 | 0.2169 | 0.0112 | 0.2281 | 0.0626 | 0.0107 | 0.0733 | 0.0000 | 605.1445 | 605.1445 | 2.7200e-003 | 0.0825 | 629.8092 |
| Worker | 0.3389 | 0.2448 | 2.9454 | 9.2500e-003 | 1.1516 | 4.9900e-003 | 1.1566 | 0.3058 | 4.5900e-003 | 0.3104 | 0.0000 | 847.8987 | 847.8987 | 0.0195 | 0.0222 | 855.0075 |
| Total | 0.3884 | 1.4453 | 3.5483 | 0.0156 | 1.3685 | 0.0162 | 1.3847 | 0.3684 | 0.0153 | 0.3837 | 0.0000 | 1,453.0432 | 1,453.0432 | 0.0222 | 0.1048 | 1,484.8167 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |

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3.4 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0496 | 1.2005 | 0.6029 | 6.3500e-003 | 0.2169 | 0.0112 | 0.2281 | 0.0626 | 0.0107 | 0.0733 | 0.0000 | 605.1445 | 605.1445 | 2.7200e-003 | 0.0825 | 629.8092 |
| Worker | 0.3389 | 0.2448 | 2.9454 | 9.2500e-003 | 1.1516 | 4.9900e-003 | 1.1566 | 0.3058 | 4.5900e-003 | 0.3104 | 0.0000 | 847.8987 | 847.8987 | 0.0195 | 0.0222 | 855.0075 |
| Total | 0.3884 | 1.4453 | 3.5483 | 0.0156 | 1.3685 | 0.0162 | 1.3847 | 0.3684 | 0.0153 | 0.3837 | 0.0000 | 1,453.0432 | 1,453.0432 | 0.0222 | 0.1048 | 1,484.8167 |

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 8.5235 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |
| Total | 8.5371 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |
| Total | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 8.5235 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |
| Total | 8.5371 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |
| Total | 0.0424 | 0.0306 | 0.3682 | 1.1600e-003 | 0.1440 | 6.2000e-004 | 0.1446 | 0.0382 | 5.7000e-004 | 0.0388 | 0.0000 | 105.9873 | 105.9873 | 2.4400e-003 | 2.7800e-003 | 106.8759 |

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0379 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0379 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 534.9455 | 534.9455 | 0.0452 | 5.4700e-003 | 537.7052 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 534.9455 | 534.9455 | 0.0452 | 5.4700e-003 | 537.7052 |
| NaturalGas Mitigated | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |
| NaturalGas Unmitigated | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 2.42716e+006 | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |
| Total | | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 2.42716e+006 | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |
| Total | | 0.0131 | 0.1190 | 0.0999 | 7.1000e-004 | | 9.0400e-003 | 9.0400e-003 | | 9.0400e-003 | 9.0400e-003 | 0.0000 | 129.5227 | 129.5227 | 2.4800e-003 | 2.3700e-003 | 130.2924 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 214900 | 38.1116 | 3.2200e-003 | 3.9000e-004 | 38.3082 |
| Unrefrigerated Warehouse-No Rail | 2.8015e+006 | 496.8339 | 0.0419 | 5.0800e-003 | 499.3970 |
| Total | | 534.9455 | 0.0452 | 5.4700e-003 | 537.7052 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 214900 | 38.1116 | 3.2200e-003 | 3.9000e-004 | 38.3082 |
| Unrefrigerated Warehouse-No Rail | 2.8015e+006 | 496.8339 | 0.0419 | 5.0800e-003 | 499.3970 |
| Total | | 534.9455 | 0.0452 | 5.4700e-003 | 537.7052 |

6.0 Area Detail

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Unmitigated | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.4206 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 4.7558 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.3200e-003 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Total | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.4206 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 4.7558 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.3200e-003 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |
| Total | 6.1787 | 2.3000e-004 | 0.0252 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | 0.0000 | 0.0490 | 0.0490 | 1.3000e-004 | 0.0000 | 0.0522 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------------|
| Category | MT/yr | | | |
| Mitigated | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |
| Unmitigated | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|------------------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 279.244 / 0 | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |
| Total | | 733.4251 | 9.1536 | 0.2215 | 1,028.256 1 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-------------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 279.244 / 0 | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |
| Total | | 733.4251 | 9.1536 | 0.2215 | 1,028.2561 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Unmitigated | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 1135.09 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Total | | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 1135.09 | 230.4130 | 13.6170 | 0.0000 | 570.8385 |
| Total | | 230.4130 | 13.6170 | 0.0000 | 570.8385 |

9.0 Operational Offroad

Alt B - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

CalEEMod Runs

Alternative C - Truck Only Run

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt C - Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 900.00 | 1000sqft | 67.59 | 900,000.00 | 0 |
| Parking Lot | 1,151.00 | Space | 10.36 | 460,400.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative C, 900,000 SF and 100% high cube (non-refrigerated). Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 900,00 sq ft high cube warehouse (non-refrigerated). 1,151 parking stalls is 75% of proposed Project total.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 576 total truck trips - applied same truck trip rate as proposed Project. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LotAcreage | 20.66 | 67.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.64 |
| tblVehicleTrips | SU_TR | 1.74 | 0.64 |
| tblVehicleTrips | WD_TR | 1.74 | 0.64 |

2.0 Emissions Summary

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.5367 | 34.5707 | 43.7269 | 0.1324 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 13,374.69 98 | 13,374.69 98 | 1.9494 | 0.7325 | 13,612.35 98 |
| 2024 | 91.3378 | 32.9638 | 63.0880 | 0.1693 | 10.3092 | 1.2503 | 11.5595 | 2.7652 | 1.1704 | 3.9355 | 0.0000 | 16,989.77 96 | 16,989.77 96 | 1.5152 | 0.7397 | 17,248.08 49 |
| Maximum | 91.3378 | 34.5707 | 63.0880 | 0.1693 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 16,989.77 96 | 16,989.77 96 | 1.9494 | 0.7397 | 17,248.08 49 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.5367 | 34.5707 | 43.7269 | 0.1324 | 8.6615 | 1.4256 | 9.4640 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 13,374.69 98 | 13,374.69 98 | 1.9494 | 0.7325 | 13,612.35 98 |
| 2024 | 91.3378 | 32.9638 | 63.0880 | 0.1693 | 10.3092 | 1.2503 | 11.5595 | 2.7652 | 1.1704 | 3.9355 | 0.0000 | 16,989.77 96 | 16,989.77 96 | 1.5152 | 0.7397 | 17,248.08 49 |
| Maximum | 91.3378 | 34.5707 | 63.0880 | 0.1693 | 10.3092 | 1.4256 | 11.5595 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 16,989.77 96 | 16,989.77 96 | 1.9494 | 0.7397 | 17,248.08 49 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Energy | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Mobile | 2.5297 | 85.4588 | 29.2103 | 0.4901 | 20.2407 | 1.1280 | 21.3687 | 5.6655 | 1.0788 | 6.7443 | | 51,466.7184 | 51,466.7184 | 0.1859 | 6.8497 | 53,512.5681 |
| Total | 27.8277 | 85.9466 | 29.8275 | 0.4931 | 20.2407 | 1.1657 | 21.4063 | 5.6655 | 1.1165 | 6.7820 | | 52,050.2454 | 52,050.2454 | 0.1983 | 6.8604 | 54,099.5894 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Energy | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Mobile | 2.5297 | 85.4588 | 29.2103 | 0.4901 | 20.2407 | 1.1280 | 21.3687 | 5.6655 | 1.0788 | 6.7443 | | 51,466.7184 | 51,466.7184 | 0.1859 | 6.8497 | 53,512.5681 |
| Total | 27.8277 | 85.9466 | 29.8275 | 0.4931 | 20.2407 | 1.1657 | 21.4063 | 5.6655 | 1.1165 | 6.7820 | | 52,050.2454 | 52,050.2454 | 0.1983 | 6.8604 | 54,099.5894 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 10.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,350,000; Non-Residential Outdoor: 450,000; Striped Parking Area: 27,624 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 114.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 571.00 | 223.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3323 | 7.1533 | 3.8035 | 0.0403 | 1.3681 | 0.0699 | 1.4380 | 0.3941 | 0.0669 | 0.4609 | | 4,232.4178 | 4,232.4178 | 0.0198 | 0.5770 | 4,404.8730 |
| Worker | 2.6317 | 1.5743 | 23.6794 | 0.0652 | 7.2934 | 0.0329 | 7.3263 | 1.9341 | 0.0303 | 1.9644 | | 6,587.0721 | 6,587.0721 | 0.1476 | 0.1554 | 6,637.0808 |
| Total | 2.9639 | 8.7275 | 27.4829 | 0.1054 | 8.6615 | 0.1028 | 8.7643 | 2.3282 | 0.0972 | 2.4254 | | 10,819.4899 | 10,819.4899 | 0.1675 | 0.7325 | 11,041.9538 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3323 | 7.1533 | 3.8035 | 0.0403 | 1.3681 | 0.0699 | 1.4380 | 0.3941 | 0.0669 | 0.4609 | | 4,232.4178 | 4,232.4178 | 0.0198 | 0.5770 | 4,404.8730 |
| Worker | 2.6317 | 1.5743 | 23.6794 | 0.0652 | 7.2934 | 0.0329 | 7.3263 | 1.9341 | 0.0303 | 1.9644 | | 6,587.0721 | 6,587.0721 | 0.1476 | 0.1554 | 6,637.0808 |
| Total | 2.9639 | 8.7275 | 27.4829 | 0.1054 | 8.6615 | 0.1028 | 8.7643 | 2.3282 | 0.0972 | 2.4254 | | 10,819.4899 | 10,819.4899 | 0.1675 | 0.7325 | 11,041.9538 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3211 | 7.0739 | 3.6748 | 0.0394 | 1.3681 | 0.0695 | 1.4376 | 0.3941 | 0.0665 | 0.4606 | | 4,140.4460 | 4,140.4460 | 0.0189 | 0.5638 | 4,308.9360 |
| Worker | 2.4368 | 1.3890 | 21.8697 | 0.0630 | 7.2934 | 0.0310 | 7.3244 | 1.9341 | 0.0286 | 1.9627 | | 6,366.3559 | 6,366.3559 | 0.1322 | 0.1435 | 6,412.4121 |
| Total | 2.7578 | 8.4629 | 25.5445 | 0.1024 | 8.6615 | 0.1006 | 8.7620 | 2.3282 | 0.0951 | 2.4233 | | 10,506.8019 | 10,506.8019 | 0.1512 | 0.7073 | 10,721.3481 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3211 | 7.0739 | 3.6748 | 0.0394 | 1.3681 | 0.0695 | 1.4376 | 0.3941 | 0.0665 | 0.4606 | | 4,140.4460 | 4,140.4460 | 0.0189 | 0.5638 | 4,308.9360 |
| Worker | 2.4368 | 1.3890 | 21.8697 | 0.0630 | 7.2934 | 0.0310 | 7.3244 | 1.9341 | 0.0286 | 1.9627 | | 6,366.3559 | 6,366.3559 | 0.1322 | 0.1435 | 6,412.4121 |
| Total | 2.7578 | 8.4629 | 25.5445 | 0.1024 | 8.6615 | 0.1006 | 8.7620 | 2.3282 | 0.0951 | 2.4233 | | 10,506.8019 | 10,506.8019 | 0.1512 | 0.7073 | 10,721.3481 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 84.7104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 84.8911 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4865 | 0.2773 | 4.3663 | 0.0126 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,271.0413 | 1,271.0413 | 0.0264 | 0.0286 | 1,280.2364 |
| Total | 0.4865 | 0.2773 | 4.3663 | 0.0126 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,271.0413 | 1,271.0413 | 0.0264 | 0.0286 | 1,280.2364 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 84.7104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 84.8911 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4865 | 0.2773 | 4.3663 | 0.0126 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,271.0413 | 1,271.0413 | 0.0264 | 0.0286 | 1,280.2364 |
| Total | 0.4865 | 0.2773 | 4.3663 | 0.0126 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,271.0413 | 1,271.0413 | 0.0264 | 0.0286 | 1,280.2364 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.6786 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.6667 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.6786 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.6667 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.5297 | 85.4588 | 29.2103 | 0.4901 | 20.2407 | 1.1280 | 21.3687 | 5.6655 | 1.0788 | 6.7443 | | 51,466.71 84 | 51,466.71 84 | 0.1859 | 6.8497 | 53,512.56 81 |
| Unmitigated | 2.5297 | 85.4588 | 29.2103 | 0.4901 | 20.2407 | 1.1280 | 21.3687 | 5.6655 | 1.0788 | 6.7443 | | 51,466.71 84 | 51,466.71 84 | 0.1859 | 6.8497 | 53,512.56 81 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 576.00 | 576.00 | 576.00 | 8,386,560 | 8,386,560 |
| Total | 576.00 | 576.00 | 576.00 | 8,386,560 | 8,386,560 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| NaturalGas Unmitigated | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 4956.16 | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Total | | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 4.95616 | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Total | | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

6.0 Area Detail

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Unmitigated | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 5.8021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 19.4231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0193 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Total | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 5.8021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 19.4231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0193 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Total | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt C - Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 900.00 | 1000sqft | 67.59 | 900,000.00 | 0 |
| Parking Lot | 1,151.00 | Space | 10.36 | 460,400.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative C, 900,000 SF and 100% high cube (non-refrigerated). Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 900,00 sq ft high cube warehouse (non-refrigerated). 1,151 parking stalls is 75% of proposed Project total.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 576 total truck trips - applied same truck trip rate as proposed Project. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LotAcreage | 20.66 | 67.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.64 |
| tblVehicleTrips | SU_TR | 1.74 | 0.64 |
| tblVehicleTrips | WD_TR | 1.74 | 0.64 |

2.0 Emissions Summary

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.3518 | 34.5722 | 38.6296 | 0.1252 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 12,648.47 20 | 12,648.47 20 | 1.9493 | 0.7375 | 12,887.54 20 |
| 2024 | 91.1399 | 33.4694 | 57.3259 | 0.1608 | 10.3092 | 1.2506 | 11.5598 | 2.7652 | 1.1706 | 3.9358 | 0.0000 | 16,128.98 94 | 16,128.98 94 | 1.5119 | 0.7449 | 16,388.76 22 |
| Maximum | 91.1399 | 34.5722 | 57.3259 | 0.1608 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 16,128.98 94 | 16,128.98 94 | 1.9493 | 0.7449 | 16,388.76 22 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.3518 | 34.5722 | 38.6296 | 0.1252 | 8.6615 | 1.4256 | 9.4643 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 12,648.47 20 | 12,648.47 20 | 1.9493 | 0.7375 | 12,887.54 20 |
| 2024 | 91.1399 | 33.4694 | 57.3259 | 0.1608 | 10.3092 | 1.2506 | 11.5598 | 2.7652 | 1.1706 | 3.9358 | 0.0000 | 16,128.98 94 | 16,128.98 94 | 1.5119 | 0.7449 | 16,388.76 22 |
| Maximum | 91.1399 | 34.5722 | 57.3259 | 0.1608 | 10.3092 | 1.4256 | 11.5598 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 16,128.98 94 | 16,128.98 94 | 1.9493 | 0.7449 | 16,388.76 22 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 37.18 | 0.00 | 35.73 | 46.49 | 0.00 | 39.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Energy | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Mobile | 2.4500 | 90.0626 | 29.1681 | 0.4905 | 20.2407 | 1.1286 | 21.3693 | 5.6655 | 1.0793 | 6.7449 | | 51,502.1802 | 51,502.1802 | 0.1806 | 6.8670 | 53,553.0535 |
| Total | 27.7479 | 90.5504 | 29.7854 | 0.4934 | 20.2407 | 1.1663 | 21.4069 | 5.6655 | 1.1170 | 6.7826 | | 52,085.7072 | 52,085.7072 | 0.1929 | 6.8777 | 54,140.0748 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Energy | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Mobile | 2.4500 | 90.0626 | 29.1681 | 0.4905 | 20.2407 | 1.1286 | 21.3693 | 5.6655 | 1.0793 | 6.7449 | | 51,502.1802 | 51,502.1802 | 0.1806 | 6.8670 | 53,553.0535 |
| Total | 27.7479 | 90.5504 | 29.7854 | 0.4934 | 20.2407 | 1.1663 | 21.4069 | 5.6655 | 1.1170 | 6.7826 | | 52,085.7072 | 52,085.7072 | 0.1929 | 6.8777 | 54,140.0748 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 10.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,350,000; Non-Residential Outdoor: 450,000; Striped Parking Area: 27,624 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 114.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 571.00 | 223.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3095 | 7.6192 | 3.9397 | 0.0404 | 1.3681 | 0.0702 | 1.4382 | 0.3941 | 0.0671 | 0.4612 | | 4,245.4195 | 4,245.4195 | 0.0189 | 0.5798 | 4,418.6661 |
| Worker | 2.4695 | 1.6165 | 18.4459 | 0.0579 | 7.2934 | 0.0329 | 7.3263 | 1.9341 | 0.0303 | 1.9644 | | 5,847.8427 | 5,847.8427 | 0.1450 | 0.1577 | 5,898.4699 |
| Total | 2.7790 | 9.2357 | 22.3856 | 0.0982 | 8.6615 | 0.1031 | 8.7646 | 2.3282 | 0.0974 | 2.4256 | | 10,093.2621 | 10,093.2621 | 0.1638 | 0.7375 | 10,317.1360 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3095 | 7.6192 | 3.9397 | 0.0404 | 1.3681 | 0.0702 | 1.4382 | 0.3941 | 0.0671 | 0.4612 | | 4,245.4195 | 4,245.4195 | 0.0189 | 0.5798 | 4,418.6661 |
| Worker | 2.4695 | 1.6165 | 18.4459 | 0.0579 | 7.2934 | 0.0329 | 7.3263 | 1.9341 | 0.0303 | 1.9644 | | 5,847.8427 | 5,847.8427 | 0.1450 | 0.1577 | 5,898.4699 |
| Total | 2.7790 | 9.2357 | 22.3856 | 0.0982 | 8.6615 | 0.1031 | 8.7646 | 2.3282 | 0.0974 | 2.4256 | | 10,093.2621 | 10,093.2621 | 0.1638 | 0.7375 | 10,317.1360 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2984 | 7.5345 | 3.8115 | 0.0395 | 1.3681 | 0.0698 | 1.4378 | 0.3941 | 0.0667 | 0.4608 | | 4,153.2998 | 4,153.2998 | 0.0180 | 0.5665 | 4,322.5531 |
| Worker | 2.2938 | 1.4257 | 17.0580 | 0.0559 | 7.2934 | 0.0310 | 7.3244 | 1.9341 | 0.0286 | 1.9627 | | 5,653.7120 | 5,653.7120 | 0.1303 | 0.1455 | 5,700.3427 |
| Total | 2.5922 | 8.9602 | 20.8694 | 0.0954 | 8.6615 | 0.1008 | 8.7623 | 2.3282 | 0.0953 | 2.4235 | | 9,807.0118 | 9,807.0118 | 0.1483 | 0.7120 | 10,022.8957 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2984 | 7.5345 | 3.8115 | 0.0395 | 1.3681 | 0.0698 | 1.4378 | 0.3941 | 0.0667 | 0.4608 | | 4,153.2998 | 4,153.2998 | 0.0180 | 0.5665 | 4,322.5531 |
| Worker | 2.2938 | 1.4257 | 17.0580 | 0.0559 | 7.2934 | 0.0310 | 7.3244 | 1.9341 | 0.0286 | 1.9627 | | 5,653.7120 | 5,653.7120 | 0.1303 | 0.1455 | 5,700.3427 |
| Total | 2.5922 | 8.9602 | 20.8694 | 0.0954 | 8.6615 | 0.1008 | 8.7623 | 2.3282 | 0.0953 | 2.4235 | | 9,807.0118 | 9,807.0118 | 0.1483 | 0.7120 | 10,022.8957 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 84.7104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 84.8911 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4580 | 0.2846 | 3.4056 | 0.0112 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,128.7621 | 1,128.7621 | 0.0260 | 0.0291 | 1,138.0719 |
| Total | 0.4580 | 0.2846 | 3.4056 | 0.0112 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,128.7621 | 1,128.7621 | 0.0260 | 0.0291 | 1,138.0719 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 84.7104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 84.8911 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4580 | 0.2846 | 3.4056 | 0.0112 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,128.7621 | 1,128.7621 | 0.0260 | 0.0291 | 1,138.0719 |
| Total | 0.4580 | 0.2846 | 3.4056 | 0.0112 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,128.7621 | 1,128.7621 | 0.0260 | 0.0291 | 1,138.0719 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.6786 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.6667 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.6786 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.6667 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.4500 | 90.0626 | 29.1681 | 0.4905 | 20.2407 | 1.1286 | 21.3693 | 5.6655 | 1.0793 | 6.7449 | | 51,502.1802 | 51,502.1802 | 0.1806 | 6.8670 | 53,553.0535 |
| Unmitigated | 2.4500 | 90.0626 | 29.1681 | 0.4905 | 20.2407 | 1.1286 | 21.3693 | 5.6655 | 1.0793 | 6.7449 | | 51,502.1802 | 51,502.1802 | 0.1806 | 6.8670 | 53,553.0535 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 576.00 | 576.00 | 576.00 | 8,386,560 | 8,386,560 |
| Total | 576.00 | 576.00 | 576.00 | 8,386,560 | 8,386,560 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 40.00 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| NaturalGas Unmitigated | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 4956.16 | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Total | | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 4.95616 | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Total | | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

6.0 Area Detail

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Unmitigated | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 5.8021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 19.4231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0193 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Total | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 5.8021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 19.4231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0193 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Total | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt C - Development at Dale Evans and Lafayette - Truck Only Run

Mojave Desert AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 900.00 | 1000sqft | 67.59 | 900,000.00 | 0 |
| Parking Lot | 1,151.00 | Space | 10.36 | 460,400.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative C, 900,000 SF and 100% high cube (non-refrigerated). Operational emissions represent trucks only. See EIR for complete operational emissions.

Land Use - 900,00 sq ft high cube warehouse (non-refrigerated). 1,151 parking stalls is 75% of proposed Project total.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 576 total truck trips - applied same truck trip rate as proposed Project. Assumes 100% primary trips and 100% commercial-work trip types. Assumes 40 mile trip length per SCAQMD.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 35% of truck trips are Light Heavy Duty (LHD1), 11% of truck trips are Medium Heavy Duty (MHD) and 54% of truck trips are Heavy Heavy Duty (HHD) per Project traffic study.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.54 |
| tblFleetMix | LDA | 0.53 | 0.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.35 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.11 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LotAcreage | 20.66 | 67.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TL | 14.70 | 40.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |
| tblVehicleTrips | ST_TR | 1.74 | 0.64 |
| tblVehicleTrips | SU_TR | 1.74 | 0.64 |
| tblVehicleTrips | WD_TR | 1.74 | 0.64 |

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.4822 | 3.5908 | 4.3224 | 0.0122 | 1.3716 | 0.1386 | 1.5102 | 0.5125 | 0.1287 | 0.6411 | 0.0000 | 1,109.394 2 | 1,109.394 2 | 0.1418 | 0.0476 | 1,127.107 2 |
| 2024 | 6.8993 | 2.9968 | 5.3003 | 0.0164 | 1.1324 | 0.1001 | 1.2325 | 0.3044 | 0.0943 | 0.3987 | 0.0000 | 1,503.367 8 | 1,503.367 8 | 0.0983 | 0.0803 | 1,529.750 1 |
| Maximum | 6.8993 | 3.5908 | 5.3003 | 0.0164 | 1.3716 | 0.1386 | 1.5102 | 0.5125 | 0.1287 | 0.6411 | 0.0000 | 1,503.367 8 | 1,503.367 8 | 0.1418 | 0.0803 | 1,529.750 1 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.4822 | 3.5908 | 4.3224 | 0.0122 | 0.9187 | 0.1386 | 1.0572 | 0.3053 | 0.1287 | 0.4340 | 0.0000 | 1,109.393 6 | 1,109.393 6 | 0.1418 | 0.0476 | 1,127.106 6 |
| 2024 | 6.8993 | 2.9968 | 5.3003 | 0.0164 | 1.1324 | 0.1001 | 1.2325 | 0.3044 | 0.0943 | 0.3987 | 0.0000 | 1,503.367 4 | 1,503.367 4 | 0.0983 | 0.0803 | 1,529.749 7 |
| Maximum | 6.8993 | 3.5908 | 5.3003 | 0.0164 | 1.1324 | 0.1386 | 1.2325 | 0.3053 | 0.1287 | 0.4340 | 0.0000 | 1,503.367 4 | 1,503.367 4 | 0.1418 | 0.0803 | 1,529.749 7 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 18.09 | 0.00 | 16.52 | 25.36 | 0.00 | 19.92 | 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 | 1-1-2023 | 3-31-2023 | 1.0702 | 1.0702 |
| 2 | 4-1-2023 | 6-30-2023 | 1.1828 | 1.1828 |
| 3 | 7-1-2023 | 9-30-2023 | 0.9085 | 0.9085 |
| 4 | 10-1-2023 | 12-31-2023 | 0.9191 | 0.9191 |
| 5 | 1-1-2024 | 3-31-2024 | 0.8602 | 0.8602 |
| 6 | 4-1-2024 | 6-30-2024 | 1.7802 | 1.7802 |
| 7 | 7-1-2024 | 9-30-2024 | 3.9390 | 3.9390 |
| | | Highest | 3.9390 | 3.9390 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Energy | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 495.4101 | 495.4101 | 0.0355 | 5.8500e-003 | 498.0415 |
| Mobile | 0.4502 | 16.5438 | 5.2691 | 0.0891 | 3.6268 | 0.2051 | 3.8319 | 1.0172 | 0.1962 | 1.2133 | 0.0000 | 8,489.8349 | 8,489.8349 | 0.0300 | 1.1326 | 8,828.0863 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 171.7304 | 0.0000 | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 66.0285 | 480.6057 | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Total | 5.0653 | 16.6327 | 5.3624 | 0.0897 | 3.6268 | 0.2119 | 3.8388 | 1.0172 | 0.2030 | 1.2201 | 237.7588 | 9,465.8873 | 9,703.6461 | 17.0369 | 1.3035 | 10,517.9982 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|--------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Energy | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 495.4101 | 495.4101 | 0.0355 | 5.8500e-003 | 498.0415 |
| Mobile | 0.4502 | 16.5438 | 5.2691 | 0.0891 | 3.6268 | 0.2051 | 3.8319 | 1.0172 | 0.1962 | 1.2133 | 0.0000 | 8,489.8349 | 8,489.8349 | 0.0300 | 1.1326 | 8,828.0863 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 171.7304 | 0.0000 | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 66.0285 | 480.6057 | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Total | 5.0653 | 16.6327 | 5.3624 | 0.0897 | 3.6268 | 0.2119 | 3.8388 | 1.0172 | 0.2030 | 1.2201 | 237.7588 | 9,465.8873 | 9,703.6461 | 17.0369 | 1.3035 | 10,517.9982 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | |
|---|-----------------------|-----------------------|-----------|------------|---|-----|
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 10.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,350,000; Non-Residential Outdoor: 450,000; Striped Parking Area: 27,624 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

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| 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 114.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 571.00 | 223.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3931 | 0.0000 | 0.3931 | 0.2021 | 0.0000 | 0.2021 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.3931 | 0.0253 | 0.4185 | 0.2021 | 0.0233 | 0.2253 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1592 | 0.0000 | 0.1592 | 0.0818 | 0.0000 | 0.0818 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.1592 | 0.0253 | 0.1845 | 0.0818 | 0.0233 | 0.1051 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |

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3.2 Site Preparation - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

3.3 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3681 | 0.0000 | 0.3681 | 0.1462 | 0.0000 | 0.1462 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.3681 | 0.0570 | 0.4251 | 0.1462 | 0.0524 | 0.1986 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1491 | 0.0000 | 0.1491 | 0.0592 | 0.0000 | 0.0592 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.1491 | 0.0570 | 0.2061 | 0.0592 | 0.0524 | 0.1116 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |

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3.3 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |

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3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0223 | 0.5284 | 0.2713 | 2.8200e-003 | 0.0944 | 4.9000e-003 | 0.0993 | 0.0272 | 4.6900e-003 | 0.0319 | 0.0000 | 269.1193 | 269.1193 | 1.2400e-003 | 0.0368 | 280.1038 |
| Worker | 0.1591 | 0.1209 | 1.3869 | 4.1600e-003 | 0.5014 | 2.3000e-003 | 0.5037 | 0.1332 | 2.1200e-003 | 0.1353 | 0.0000 | 381.8863 | 381.8863 | 9.4600e-003 | 0.0105 | 385.2476 |
| Total | 0.1814 | 0.6492 | 1.6581 | 6.9800e-003 | 0.5958 | 7.2000e-003 | 0.6030 | 0.1604 | 6.8100e-003 | 0.1672 | 0.0000 | 651.0056 | 651.0056 | 0.0107 | 0.0473 | 665.3513 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0223 | 0.5284 | 0.2713 | 2.8200e-003 | 0.0944 | 4.9000e-003 | 0.0993 | 0.0272 | 4.6900e-003 | 0.0319 | 0.0000 | 269.1193 | 269.1193 | 1.2400e-003 | 0.0368 | 280.1038 |
| Worker | 0.1591 | 0.1209 | 1.3869 | 4.1600e-003 | 0.5014 | 2.3000e-003 | 0.5037 | 0.1332 | 2.1200e-003 | 0.1353 | 0.0000 | 381.8863 | 381.8863 | 9.4600e-003 | 0.0105 | 385.2476 |
| Total | 0.1814 | 0.6492 | 1.6581 | 6.9800e-003 | 0.5958 | 7.2000e-003 | 0.6030 | 0.1604 | 6.8100e-003 | 0.1672 | 0.0000 | 651.0056 | 651.0056 | 0.0107 | 0.0473 | 665.3513 |

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0370 | 0.8953 | 0.4497 | 4.7300e-003 | 0.1618 | 8.3600e-003 | 0.1701 | 0.0467 | 7.9900e-003 | 0.0547 | 0.0000 | 451.3285 | 451.3285 | 2.0300e-003 | 0.0616 | 469.7239 |
| Worker | 0.2529 | 0.1827 | 2.1984 | 6.9000e-003 | 0.8596 | 3.7200e-003 | 0.8633 | 0.2283 | 3.4300e-003 | 0.2317 | 0.0000 | 632.8760 | 632.8760 | 0.0146 | 0.0166 | 638.1821 |
| Total | 0.2899 | 1.0780 | 2.6481 | 0.0116 | 1.0213 | 0.0121 | 1.0334 | 0.2750 | 0.0114 | 0.2864 | 0.0000 | 1,084.2045 | 1,084.2045 | 0.0166 | 0.0781 | 1,107.9060 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0370 | 0.8953 | 0.4497 | 4.7300e-003 | 0.1618 | 8.3600e-003 | 0.1701 | 0.0467 | 7.9900e-003 | 0.0547 | 0.0000 | 451.3285 | 451.3285 | 2.0300e-003 | 0.0616 | 469.7239 |
| Worker | 0.2529 | 0.1827 | 2.1984 | 6.9000e-003 | 0.8596 | 3.7200e-003 | 0.8633 | 0.2283 | 3.4300e-003 | 0.2317 | 0.0000 | 632.8760 | 632.8760 | 0.0146 | 0.0166 | 638.1821 |
| Total | 0.2899 | 1.0780 | 2.6481 | 0.0116 | 1.0213 | 0.0121 | 1.0334 | 0.2750 | 0.0114 | 0.2864 | 0.0000 | 1,084.2045 | 1,084.2045 | 0.0166 | 0.0781 | 1,107.9060 |

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 6.3533 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |
| Total | 6.3668 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |

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3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0316 | 0.0228 | 0.2743 | 8.6000e-004 | 0.1073 | 4.6000e-004 | 0.1077 | 0.0285 | 4.3000e-004 | 0.0289 | 0.0000 | 78.9710 | 78.9710 | 1.8200e-003 | 2.0700e-003 | 79.6331 |
| Total | 0.0316 | 0.0228 | 0.2743 | 8.6000e-004 | 0.1073 | 4.6000e-004 | 0.1077 | 0.0285 | 4.3000e-004 | 0.0289 | 0.0000 | 78.9710 | 78.9710 | 1.8200e-003 | 2.0700e-003 | 79.6331 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 6.3533 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |
| Total | 6.3668 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |

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3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0316 | 0.0228 | 0.2743 | 8.6000e-004 | 0.1073 | 4.6000e-004 | 0.1077 | 0.0285 | 4.3000e-004 | 0.0289 | 0.0000 | 78.9710 | 78.9710 | 1.8200e-003 | 2.0700e-003 | 79.6331 |
| Total | 0.0316 | 0.0228 | 0.2743 | 8.6000e-004 | 0.1073 | 4.6000e-004 | 0.1077 | 0.0285 | 4.3000e-004 | 0.0289 | 0.0000 | 78.9710 | 78.9710 | 1.8200e-003 | 2.0700e-003 | 79.6331 |

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0136 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0333 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |

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3.6 Paving - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0136 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0333 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |

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3.6 Paving - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.4502 | 16.5438 | 5.2691 | 0.0891 | 3.6268 | 0.2051 | 3.8319 | 1.0172 | 0.1962 | 1.2133 | 0.0000 | 8,489.8349 | 8,489.8349 | 0.0300 | 1.1326 | 8,828.0863 |
| Unmitigated | 0.4502 | 16.5438 | 5.2691 | 0.0891 | 3.6268 | 0.2051 | 3.8319 | 1.0172 | 0.1962 | 1.2133 | 0.0000 | 8,489.8349 | 8,489.8349 | 0.0300 | 1.1326 | 8,828.0863 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|---------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 576.00 | 576.00 | 576.00 | 8,386,560 | 8,386,560 |
| Total | 576.00 | 576.00 | 576.00 | 8,386,560 | 8,386,560 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|----------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No Rail | 40.00 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.350000 | 0.000000 | 0.110000 | 0.540000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 398.8750 | 398.8750 | 0.0337 | 4.0800e-003 | 400.9327 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 398.8750 | 398.8750 | 0.0337 | 4.0800e-003 | 400.9327 |
| NaturalGas Mitigated | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |
| NaturalGas Unmitigated | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 1.809e+006 | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |
| Total | | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 1.809e+006 | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |
| Total | | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |

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5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 161140 | 28.5775 | 2.4100e-003 | 2.9000e-004 | 28.7249 |
| Unrefrigerated Warehouse-No Rail | 2.088e+006 | 370.2975 | 0.0313 | 3.7900e-003 | 372.2078 |
| Total | | 398.8750 | 0.0337 | 4.0800e-003 | 400.9327 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 161140 | 28.5775 | 2.4100e-003 | 2.9000e-004 | 28.7249 |
| Unrefrigerated Warehouse-No Rail | 2.088e+006 | 370.2975 | 0.0313 | 3.7900e-003 | 372.2078 |
| Total | | 398.8750 | 0.0337 | 4.0800e-003 | 400.9327 |

6.0 Area Detail

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Unmitigated | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 3.5447 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.7400e-003 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Total | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 3.5447 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.7400e-003 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Total | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Unmitigated | 546.6341 | 6.8223 | 0.1651 | 766.3767 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 208.125 / 0 | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Total | | 546.6341 | 6.8223 | 0.1651 | 766.3767 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 208.125 / 0 | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Total | | 546.6341 | 6.8223 | 0.1651 | 766.3767 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Unmitigated | 171.7304 | 10.1490 | 0.0000 | 425.4547 |

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 846 | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Total | | 171.7304 | 10.1490 | 0.0000 | 425.4547 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 846 | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Total | | 171.7304 | 10.1490 | 0.0000 | 425.4547 |

9.0 Operational Offroad

Alt C - Development at Dale Evans and Lafayette - Truck Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

CalEEMod Runs

Alternative C – Passenger Vehicle Only Run

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run

Mojave Desert AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 900.00 | 1000sqft | 67.59 | 900,000.00 | 0 |
| Parking Lot | 1,151.00 | Space | 10.36 | 460,400.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative C, 900,000 SF and 100% high cube (non-refrigerated). Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 900,00 sq ft high cube warehouse (non-refrigerated). 1,151 parking stalls is 75% of proposed Project total.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1341 passenger vehicle trips - applied same passenger vehicle trip rate as proposed Project. Assumes Sat trip rate is 10% of daily, Sun is 5%. Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are in Light Duty Auto (LDA).

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LotAcreage | 20.66 | 67.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.5367 | 34.5707 | 43.7269 | 0.1324 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 13,374.69 98 | 13,374.69 98 | 1.9494 | 0.7325 | 13,612.35 98 |
| 2024 | 91.3378 | 32.9638 | 63.0880 | 0.1693 | 10.3092 | 1.2503 | 11.5595 | 2.7652 | 1.1704 | 3.9355 | 0.0000 | 16,989.77 96 | 16,989.77 96 | 1.5152 | 0.7397 | 17,248.08 49 |
| Maximum | 91.3378 | 34.5707 | 63.0880 | 0.1693 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 16,989.77 96 | 16,989.77 96 | 1.9494 | 0.7397 | 17,248.08 49 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.5367 | 34.5707 | 43.7269 | 0.1324 | 8.6615 | 1.4256 | 9.4640 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 13,374.69 98 | 13,374.69 98 | 1.9494 | 0.7325 | 13,612.35 98 |
| 2024 | 91.3378 | 32.9638 | 63.0880 | 0.1693 | 10.3092 | 1.2503 | 11.5595 | 2.7652 | 1.1704 | 3.9355 | 0.0000 | 16,989.77 96 | 16,989.77 96 | 1.5152 | 0.7397 | 17,248.08 49 |
| Maximum | 91.3378 | 34.5707 | 63.0880 | 0.1693 | 10.3092 | 1.4256 | 11.5595 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 16,989.77 96 | 16,989.77 96 | 1.9494 | 0.7397 | 17,248.08 49 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Energy | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Mobile | 1.9082 | 1.7242 | 34.3511 | 0.1169 | 14.9659 | 0.0573 | 15.0232 | 3.9673 | 0.0528 | 4.0201 | | 11,810.4314 | 11,810.4314 | 0.2030 | 0.2396 | 11,886.9074 |
| Total | 27.2061 | 2.2120 | 34.9683 | 0.1198 | 14.9659 | 0.0950 | 15.0609 | 3.9673 | 0.0904 | 4.0577 | | 12,393.9584 | 12,393.9584 | 0.2153 | 0.2503 | 12,473.9286 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Energy | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Mobile | 1.9082 | 1.7242 | 34.3511 | 0.1169 | 14.9659 | 0.0573 | 15.0232 | 3.9673 | 0.0528 | 4.0201 | | 11,810.4314 | 11,810.4314 | 0.2030 | 0.2396 | 11,886.9074 |
| Total | 27.2061 | 2.2120 | 34.9683 | 0.1198 | 14.9659 | 0.0950 | 15.0609 | 3.9673 | 0.0904 | 4.0577 | | 12,393.9584 | 12,393.9584 | 0.2153 | 0.2503 | 12,473.9286 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 10.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,350,000; Non-Residential Outdoor: 450,000; Striped Parking Area: 27,624 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 114.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 571.00 | 223.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |
| Total | 0.0830 | 0.0496 | 0.7465 | 2.0500e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 207.6485 | 207.6485 | 4.6500e-003 | 4.9000e-003 | 209.2250 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |
| Total | 0.0922 | 0.0551 | 0.8294 | 2.2800e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 230.7206 | 230.7206 | 5.1700e-003 | 5.4400e-003 | 232.4722 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3323 | 7.1533 | 3.8035 | 0.0403 | 1.3681 | 0.0699 | 1.4380 | 0.3941 | 0.0669 | 0.4609 | | 4,232.4178 | 4,232.4178 | 0.0198 | 0.5770 | 4,404.8730 |
| Worker | 2.6317 | 1.5743 | 23.6794 | 0.0652 | 7.2934 | 0.0329 | 7.3263 | 1.9341 | 0.0303 | 1.9644 | | 6,587.0721 | 6,587.0721 | 0.1476 | 0.1554 | 6,637.0808 |
| Total | 2.9639 | 8.7275 | 27.4829 | 0.1054 | 8.6615 | 0.1028 | 8.7643 | 2.3282 | 0.0972 | 2.4254 | | 10,819.4899 | 10,819.4899 | 0.1675 | 0.7325 | 11,041.9538 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3323 | 7.1533 | 3.8035 | 0.0403 | 1.3681 | 0.0699 | 1.4380 | 0.3941 | 0.0669 | 0.4609 | | 4,232.4178 | 4,232.4178 | 0.0198 | 0.5770 | 4,404.8730 |
| Worker | 2.6317 | 1.5743 | 23.6794 | 0.0652 | 7.2934 | 0.0329 | 7.3263 | 1.9341 | 0.0303 | 1.9644 | | 6,587.0721 | 6,587.0721 | 0.1476 | 0.1554 | 6,637.0808 |
| Total | 2.9639 | 8.7275 | 27.4829 | 0.1054 | 8.6615 | 0.1028 | 8.7643 | 2.3282 | 0.0972 | 2.4254 | | 10,819.4899 | 10,819.4899 | 0.1675 | 0.7325 | 11,041.9538 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3211 | 7.0739 | 3.6748 | 0.0394 | 1.3681 | 0.0695 | 1.4376 | 0.3941 | 0.0665 | 0.4606 | | 4,140.4460 | 4,140.4460 | 0.0189 | 0.5638 | 4,308.9360 |
| Worker | 2.4368 | 1.3890 | 21.8697 | 0.0630 | 7.2934 | 0.0310 | 7.3244 | 1.9341 | 0.0286 | 1.9627 | | 6,366.3559 | 6,366.3559 | 0.1322 | 0.1435 | 6,412.4121 |
| Total | 2.7578 | 8.4629 | 25.5445 | 0.1024 | 8.6615 | 0.1006 | 8.7620 | 2.3282 | 0.0951 | 2.4233 | | 10,506.8019 | 10,506.8019 | 0.1512 | 0.7073 | 10,721.3481 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3211 | 7.0739 | 3.6748 | 0.0394 | 1.3681 | 0.0695 | 1.4376 | 0.3941 | 0.0665 | 0.4606 | | 4,140.4460 | 4,140.4460 | 0.0189 | 0.5638 | 4,308.9360 |
| Worker | 2.4368 | 1.3890 | 21.8697 | 0.0630 | 7.2934 | 0.0310 | 7.3244 | 1.9341 | 0.0286 | 1.9627 | | 6,366.3559 | 6,366.3559 | 0.1322 | 0.1435 | 6,412.4121 |
| Total | 2.7578 | 8.4629 | 25.5445 | 0.1024 | 8.6615 | 0.1006 | 8.7620 | 2.3282 | 0.0951 | 2.4233 | | 10,506.8019 | 10,506.8019 | 0.1512 | 0.7073 | 10,721.3481 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 84.7104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 84.8911 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4865 | 0.2773 | 4.3663 | 0.0126 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,271.0413 | 1,271.0413 | 0.0264 | 0.0286 | 1,280.2364 |
| Total | 0.4865 | 0.2773 | 4.3663 | 0.0126 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,271.0413 | 1,271.0413 | 0.0264 | 0.0286 | 1,280.2364 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 84.7104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 84.8911 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4865 | 0.2773 | 4.3663 | 0.0126 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,271.0413 | 1,271.0413 | 0.0264 | 0.0286 | 1,280.2364 |
| Total | 0.4865 | 0.2773 | 4.3663 | 0.0126 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,271.0413 | 1,271.0413 | 0.0264 | 0.0286 | 1,280.2364 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.6786 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.6667 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.6786 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.6667 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |
| Total | 0.0640 | 0.0365 | 0.5745 | 1.6500e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 167.2423 | 167.2423 | 3.4700e-003 | 3.7700e-003 | 168.4522 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.9082 | 1.7242 | 34.3511 | 0.1169 | 14.9659 | 0.0573 | 15.0232 | 3.9673 | 0.0528 | 4.0201 | | 11,810.43 14 | 11,810.43 14 | 0.2030 | 0.2396 | 11,886.90 74 |
| Unmitigated | 1.9082 | 1.7242 | 34.3511 | 0.1169 | 14.9659 | 0.0573 | 15.0232 | 3.9673 | 0.0528 | 4.0201 | | 11,810.43 14 | 11,810.43 14 | 0.2030 | 0.2396 | 11,886.90 74 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|--------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 1,340.10 | 134.01 | 67.01 | 5,275,518 | 5,275,518 |
| Total | 1,340.10 | 134.01 | 67.01 | 5,275,518 | 5,275,518 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 14.70 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| NaturalGas Unmitigated | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 4956.16 | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Total | | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 4.95616 | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Total | | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

6.0 Area Detail

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Unmitigated | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 5.8021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 19.4231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0193 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Total | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 5.8021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 19.4231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0193 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Total | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run

Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 900.00 | 1000sqft | 67.59 | 900,000.00 | 0 |
| Parking Lot | 1,151.00 | Space | 10.36 | 460,400.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Alternative C, 900,000 SF and 100% high cube (non-refrigerated). Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 900,00 sq ft high cube warehouse (non-refrigerated). 1,151 parking stalls is 75% of proposed Project total.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1341 passenger vehicle trips - applied same passenger vehicle trip rate as proposed Project. Assumes Sat trip rate is 10% of daily, Sun is 5%. Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are in Light Duty Auto (LDA).

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LotAcreage | 20.66 | 67.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.3518 | 34.5722 | 38.6296 | 0.1252 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 12,648.47 20 | 12,648.47 20 | 1.9493 | 0.7375 | 12,887.54 20 |
| 2024 | 91.1399 | 33.4694 | 57.3259 | 0.1608 | 10.3092 | 1.2506 | 11.5598 | 2.7652 | 1.1706 | 3.9358 | 0.0000 | 16,128.98 94 | 16,128.98 94 | 1.5119 | 0.7449 | 16,388.76 22 |
| Maximum | 91.1399 | 34.5722 | 57.3259 | 0.1608 | 19.8869 | 1.4256 | 21.1540 | 10.1634 | 1.3116 | 11.3291 | 0.0000 | 16,128.98 94 | 16,128.98 94 | 1.9493 | 0.7449 | 16,388.76 22 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-------------------------|-------------------------|---------------|---------------|-------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 4.3518 | 34.5722 | 38.6296 | 0.1252 | 8.6615 | 1.4256 | 9.4643 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 12,648.47 20 | 12,648.47 20 | 1.9493 | 0.7375 | 12,887.54 20 |
| 2024 | 91.1399 | 33.4694 | 57.3259 | 0.1608 | 10.3092 | 1.2506 | 11.5598 | 2.7652 | 1.1706 | 3.9358 | 0.0000 | 16,128.98 94 | 16,128.98 94 | 1.5119 | 0.7449 | 16,388.76 22 |
| Maximum | 91.1399 | 34.5722 | 57.3259 | 0.1608 | 10.3092 | 1.4256 | 11.5598 | 4.1525 | 1.3116 | 5.3182 | 0.0000 | 16,128.98 94 | 16,128.98 94 | 1.9493 | 0.7449 | 16,388.76 22 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 37.18 | 0.00 | 35.73 | 46.49 | 0.00 | 39.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Energy | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Mobile | 1.5192 | 1.7621 | 27.0933 | 0.1025 | 14.9659 | 0.0573 | 15.0232 | 3.9673 | 0.0528 | 4.0201 | | 10,366.0840 | 10,366.0840 | 0.2060 | 0.2426 | 10,443.5387 |
| Total | 26.8171 | 2.2499 | 27.7106 | 0.1055 | 14.9659 | 0.0950 | 15.0609 | 3.9673 | 0.0904 | 4.0577 | | 10,949.6110 | 10,949.6110 | 0.2184 | 0.2533 | 11,030.5600 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Energy | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Mobile | 1.5192 | 1.7621 | 27.0933 | 0.1025 | 14.9659 | 0.0573 | 15.0232 | 3.9673 | 0.0528 | 4.0201 | | 10,366.0840 | 10,366.0840 | 0.2060 | 0.2426 | 10,443.5387 |
| Total | 26.8171 | 2.2499 | 27.7106 | 0.1055 | 14.9659 | 0.0950 | 15.0609 | 3.9673 | 0.0904 | 4.0577 | | 10,949.6110 | 10,949.6110 | 0.2184 | 0.2533 | 11,030.5600 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 | |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 10.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,350,000; Non-Residential Outdoor: 450,000; Striped Parking Area: 27,624 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | |
|------------------|---------------------------|---|------|-----|------|
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 114.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 571.00 | 223.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.9611 | 0.0000 | 7.9611 | 4.0915 | 0.0000 | 4.0915 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 7.9611 | 1.2660 | 9.2271 | 4.0915 | 1.1647 | 5.2562 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |
| Total | 0.0779 | 0.0510 | 0.5815 | 1.8200e-003 | 0.2299 | 1.0400e-003 | 0.2310 | 0.0610 | 9.6000e-004 | 0.0619 | | 184.3453 | 184.3453 | 4.5700e-003 | 4.9700e-003 | 185.9413 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.7275 | 0.0000 | 3.7275 | 1.4798 | 0.0000 | 1.4798 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 3.7275 | 1.4245 | 5.1519 | 1.4798 | 1.3105 | 2.7903 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |
| Total | 0.0865 | 0.0566 | 0.6461 | 2.0300e-003 | 0.2555 | 1.1500e-003 | 0.2566 | 0.0678 | 1.0600e-003 | 0.0688 | | 204.8281 | 204.8281 | 5.0800e-003 | 5.5200e-003 | 206.6014 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3095 | 7.6192 | 3.9397 | 0.0404 | 1.3681 | 0.0702 | 1.4382 | 0.3941 | 0.0671 | 0.4612 | | 4,245.4195 | 4,245.4195 | 0.0189 | 0.5798 | 4,418.6661 |
| Worker | 2.4695 | 1.6165 | 18.4459 | 0.0579 | 7.2934 | 0.0329 | 7.3263 | 1.9341 | 0.0303 | 1.9644 | | 5,847.8427 | 5,847.8427 | 0.1450 | 0.1577 | 5,898.4699 |
| Total | 2.7790 | 9.2357 | 22.3856 | 0.0982 | 8.6615 | 0.1031 | 8.7646 | 2.3282 | 0.0974 | 2.4256 | | 10,093.2621 | 10,093.2621 | 0.1638 | 0.7375 | 10,317.1360 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3095 | 7.6192 | 3.9397 | 0.0404 | 1.3681 | 0.0702 | 1.4382 | 0.3941 | 0.0671 | 0.4612 | | 4,245.4195 | 4,245.4195 | 0.0189 | 0.5798 | 4,418.6661 |
| Worker | 2.4695 | 1.6165 | 18.4459 | 0.0579 | 7.2934 | 0.0329 | 7.3263 | 1.9341 | 0.0303 | 1.9644 | | 5,847.8427 | 5,847.8427 | 0.1450 | 0.1577 | 5,898.4699 |
| Total | 2.7790 | 9.2357 | 22.3856 | 0.0982 | 8.6615 | 0.1031 | 8.7646 | 2.3282 | 0.0974 | 2.4256 | | 10,093.2621 | 10,093.2621 | 0.1638 | 0.7375 | 10,317.1360 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2984 | 7.5345 | 3.8115 | 0.0395 | 1.3681 | 0.0698 | 1.4378 | 0.3941 | 0.0667 | 0.4608 | | 4,153.2998 | 4,153.2998 | 0.0180 | 0.5665 | 4,322.5531 |
| Worker | 2.2938 | 1.4257 | 17.0580 | 0.0559 | 7.2934 | 0.0310 | 7.3244 | 1.9341 | 0.0286 | 1.9627 | | 5,653.7120 | 5,653.7120 | 0.1303 | 0.1455 | 5,700.3427 |
| Total | 2.5922 | 8.9602 | 20.8694 | 0.0954 | 8.6615 | 0.1008 | 8.7623 | 2.3282 | 0.0953 | 2.4235 | | 9,807.0118 | 9,807.0118 | 0.1483 | 0.7120 | 10,022.8957 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2984 | 7.5345 | 3.8115 | 0.0395 | 1.3681 | 0.0698 | 1.4378 | 0.3941 | 0.0667 | 0.4608 | | 4,153.2998 | 4,153.2998 | 0.0180 | 0.5665 | 4,322.5531 |
| Worker | 2.2938 | 1.4257 | 17.0580 | 0.0559 | 7.2934 | 0.0310 | 7.3244 | 1.9341 | 0.0286 | 1.9627 | | 5,653.7120 | 5,653.7120 | 0.1303 | 0.1455 | 5,700.3427 |
| Total | 2.5922 | 8.9602 | 20.8694 | 0.0954 | 8.6615 | 0.1008 | 8.7623 | 2.3282 | 0.0953 | 2.4235 | | 9,807.0118 | 9,807.0118 | 0.1483 | 0.7120 | 10,022.8957 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 84.7104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 84.8911 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4580 | 0.2846 | 3.4056 | 0.0112 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,128.7621 | 1,128.7621 | 0.0260 | 0.0291 | 1,138.0719 |
| Total | 0.4580 | 0.2846 | 3.4056 | 0.0112 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,128.7621 | 1,128.7621 | 0.0260 | 0.0291 | 1,138.0719 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 84.7104 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 84.8911 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4580 | 0.2846 | 3.4056 | 0.0112 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,128.7621 | 1,128.7621 | 0.0260 | 0.0291 | 1,138.0719 |
| Total | 0.4580 | 0.2846 | 3.4056 | 0.0112 | 1.4561 | 6.1900e-003 | 1.4623 | 0.3862 | 5.7000e-003 | 0.3919 | | 1,128.7621 | 1,128.7621 | 0.0260 | 0.0291 | 1,138.0719 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.6786 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.6667 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9882 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |
| Paving | 0.6786 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.6667 | 9.5246 | 14.6258 | 0.0228 | | 0.4685 | 0.4685 | | 0.4310 | 0.4310 | 0.0000 | 2,207.547 2 | 2,207.547 2 | 0.7140 | | 2,225.396 3 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |
| Total | 0.0603 | 0.0375 | 0.4481 | 1.4700e-003 | 0.1916 | 8.2000e-004 | 0.1924 | 0.0508 | 7.5000e-004 | 0.0516 | | 148.5213 | 148.5213 | 3.4200e-003 | 3.8200e-003 | 149.7463 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------------|-----------------|--------|--------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.5192 | 1.7621 | 27.0933 | 0.1025 | 14.9659 | 0.0573 | 15.0232 | 3.9673 | 0.0528 | 4.0201 | | 10,366.08 40 | 10,366.08 40 | 0.2060 | 0.2426 | 10,443.53 87 |
| Unmitigated | 1.5192 | 1.7621 | 27.0933 | 0.1025 | 14.9659 | 0.0573 | 15.0232 | 3.9673 | 0.0528 | 4.0201 | | 10,366.08 40 | 10,366.08 40 | 0.2060 | 0.2426 | 10,443.53 87 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------------|-------------------------|---------------|--------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 1,340.10 | 134.01 | 67.01 | 5,275,518 | 5,275,518 |
| Total | 1,340.10 | 134.01 | 67.01 | 5,275,518 | 5,275,518 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|-----------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Parking Lot | 14.70 | 6.60 | 6.60 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 14.70 | 6.60 | 6.60 | 100.00 | 0.00 | 0.00 | 100 | 0 | 0 |

4.4 Fleet Mix

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |
| Unrefrigerated Warehouse-No Rail | 1.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| NaturalGas Unmitigated | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 4956.16 | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Total | | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 4.95616 | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |
| Total | | 0.0535 | 0.4859 | 0.4082 | 2.9200e-003 | | 0.0369 | 0.0369 | | 0.0369 | 0.0369 | | 583.0782 | 583.0782 | 0.0112 | 0.0107 | 586.5431 |

6.0 Area Detail

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Unmitigated | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 5.8021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 19.4231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0193 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Total | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 5.8021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 19.4231 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 0.0193 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |
| Total | 25.2445 | 1.9000e-003 | 0.2091 | 2.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | | 0.4489 | 0.4489 | 1.1700e-003 | | 0.4782 |

7.0 Water Detail

7.1 Mitigation Measures Water

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run

Mojave Desert AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|----------|----------|-------------|--------------------|------------|
| Unrefrigerated Warehouse-No Rail | 900.00 | 1000sqft | 67.59 | 900,000.00 | 0 |
| Parking Lot | 1,151.00 | Space | 10.36 | 460,400.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Rural | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| 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 - Alternative C, 900,000 SF and 100% high cube (non-refrigerated). Operational emissions represent passenger vehicles only. See EIR for complete operational emissions.

Land Use - 900,00 sq ft high cube warehouse (non-refrigerated). 1,151 parking stalls is 75% of proposed Project total.

Construction Phase - Assumes a 2 year buildout. Assumes that building construction, paving, and architectural coating occur concurrently.

Grading -

Architectural Coating - Assumes lower VOC content coatings as required by MDAQMD Rule 1113.

Vehicle Trips - 1341 passenger vehicle trips - applied same passenger vehicle trip rate as proposed Project. Assumes Sat trip rate is 10% of daily, Sun is 5%. Assumes 100% primary trips and 100% commercial-work trip types.

Construction Off-road Equipment Mitigation - Assumes standard dust control measures per MDAQMD Rule 403.

Fleet Mix - Assumes 100% of passenger vehicle trips are in Light Duty Auto (LDA).

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Table Name | Column Name | Default Value | New Value |
|---------------------------|----------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 150.00 |
| tblConstructionPhase | NumDays | 60.00 | 40.00 |
| tblConstructionPhase | NumDays | 155.00 | 80.00 |
| tblConstructionPhase | NumDays | 1,550.00 | 380.00 |
| tblConstructionPhase | NumDays | 110.00 | 150.00 |
| tblConstructionPhase | NumDays | 110.00 | 40.00 |
| tblFleetMix | HHD | 0.02 | 0.00 |
| tblFleetMix | LDA | 0.53 | 1.00 |
| tblFleetMix | LDT1 | 0.06 | 0.00 |
| tblFleetMix | LDT2 | 0.17 | 0.00 |
| tblFleetMix | LHD1 | 0.03 | 0.00 |
| tblFleetMix | LHD2 | 7.6920e-003 | 0.00 |
| tblFleetMix | MCY | 0.03 | 0.00 |
| tblFleetMix | MDV | 0.14 | 0.00 |
| tblFleetMix | MH | 5.4230e-003 | 0.00 |
| tblFleetMix | MHD | 6.1550e-003 | 0.00 |
| tblFleetMix | OBUS | 4.8300e-004 | 0.00 |
| tblFleetMix | SBUS | 9.2800e-004 | 0.00 |
| tblFleetMix | UBUS | 1.5800e-004 | 0.00 |
| tblLandUse | LotAcreage | 20.66 | 67.59 |
| tblProjectCharacteristics | UrbanizationLevel | Urban | Rural |
| tblVehicleTrips | CNW_TTP | 41.00 | 0.00 |
| tblVehicleTrips | CW_TTP | 59.00 | 100.00 |
| tblVehicleTrips | DV_TP | 5.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |
| tblVehicleTrips | PR_TP | 92.00 | 100.00 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|-----------------|-------|------|------|
| tblVehicleTrips | ST_TR | 1.74 | 0.15 |
| tblVehicleTrips | SU_TR | 1.74 | 0.07 |
| tblVehicleTrips | WD_TR | 1.74 | 1.49 |

2.0 Emissions Summary

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.4822 | 3.5908 | 4.3224 | 0.0122 | 1.3716 | 0.1386 | 1.5102 | 0.5125 | 0.1287 | 0.6411 | 0.0000 | 1,109.394 2 | 1,109.394 2 | 0.1418 | 0.0476 | 1,127.107 2 |
| 2024 | 6.8993 | 2.9968 | 5.3003 | 0.0164 | 1.1324 | 0.1001 | 1.2325 | 0.3044 | 0.0943 | 0.3987 | 0.0000 | 1,503.367 8 | 1,503.367 8 | 0.0983 | 0.0803 | 1,529.750 1 |
| Maximum | 6.8993 | 3.5908 | 5.3003 | 0.0164 | 1.3716 | 0.1386 | 1.5102 | 0.5125 | 0.1287 | 0.6411 | 0.0000 | 1,503.367 8 | 1,503.367 8 | 0.1418 | 0.0803 | 1,529.750 1 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 0.4822 | 3.5908 | 4.3224 | 0.0122 | 0.9187 | 0.1386 | 1.0572 | 0.3053 | 0.1287 | 0.4340 | 0.0000 | 1,109.393 6 | 1,109.393 6 | 0.1418 | 0.0476 | 1,127.106 6 |
| 2024 | 6.8993 | 2.9968 | 5.3003 | 0.0164 | 1.1324 | 0.1001 | 1.2325 | 0.3044 | 0.0943 | 0.3987 | 0.0000 | 1,503.367 4 | 1,503.367 4 | 0.0983 | 0.0803 | 1,529.749 7 |
| Maximum | 6.8993 | 3.5908 | 5.3003 | 0.0164 | 1.1324 | 0.1386 | 1.2325 | 0.3053 | 0.1287 | 0.4340 | 0.0000 | 1,503.367 4 | 1,503.367 4 | 0.1418 | 0.0803 | 1,529.749 7 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 18.09 | 0.00 | 16.52 | 25.36 | 0.00 | 19.92 | 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 | 1-1-2023 | 3-31-2023 | 1.0702 | 1.0702 |
| 2 | 4-1-2023 | 6-30-2023 | 1.1828 | 1.1828 |
| 3 | 7-1-2023 | 9-30-2023 | 0.9085 | 0.9085 |
| 4 | 10-1-2023 | 12-31-2023 | 0.9191 | 0.9191 |
| 5 | 1-1-2024 | 3-31-2024 | 0.8602 | 0.8602 |
| 6 | 4-1-2024 | 6-30-2024 | 1.7802 | 1.7802 |
| 7 | 7-1-2024 | 9-30-2024 | 3.9390 | 3.9390 |
| | | Highest | 3.9390 | 3.9390 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Energy | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 495.4101 | 495.4101 | 0.0355 | 5.8500e-003 | 498.0415 |
| Mobile | 0.2026 | 0.2509 | 3.8941 | 0.0141 | 1.9681 | 7.6600e-003 | 1.9758 | 0.5224 | 7.0500e-003 | 0.5295 | 0.0000 | 1,297.0105 | 1,297.0105 | 0.0256 | 0.0307 | 1,306.8065 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 171.7304 | 0.0000 | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 66.0285 | 480.6057 | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Total | 4.8177 | 0.3397 | 3.9874 | 0.0147 | 1.9681 | 0.0145 | 1.9826 | 0.5224 | 0.0139 | 0.5363 | 237.7588 | 2,273.0629 | 2,510.8217 | 17.0326 | 0.2016 | 2,996.7184 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Energy | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 495.4101 | 495.4101 | 0.0355 | 5.8500e-003 | 498.0415 |
| Mobile | 0.2026 | 0.2509 | 3.8941 | 0.0141 | 1.9681 | 7.6600e-003 | 1.9758 | 0.5224 | 7.0500e-003 | 0.5295 | 0.0000 | 1,297.0105 | 1,297.0105 | 0.0256 | 0.0307 | 1,306.8065 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 171.7304 | 0.0000 | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 66.0285 | 480.6057 | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Total | 4.8177 | 0.3397 | 3.9874 | 0.0147 | 1.9681 | 0.0145 | 1.9826 | 0.5224 | 0.0139 | 0.5363 | 237.7588 | 2,273.0629 | 2,510.8217 | 17.0326 | 0.2016 | 2,996.7184 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 1/1/2023 | 2/24/2023 | 5 | 40 | |
| 2 | Grading | Grading | 2/25/2023 | 6/16/2023 | 5 | 80 | |
| 3 | Building Construction | Building Construction | 6/17/2023 | 12/1/2024 | 5 | 380 | |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | |
|---|-----------------------|-----------------------|-----------|------------|---|-----|
| 4 | Architectural Coating | Architectural Coating | 6/1/2024 | 12/27/2024 | 5 | 150 |
| 5 | Paving | Paving | 7/17/2024 | 9/10/2024 | 5 | 40 |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 240

Acres of Paving: 10.36

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,350,000; Non-Residential Outdoor: 450,000; Striped Parking Area: 27,624 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 114.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 571.00 | 223.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 16.80 | 6.60 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3931 | 0.0000 | 0.3931 | 0.2021 | 0.0000 | 0.2021 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.3931 | 0.0253 | 0.4185 | 0.2021 | 0.0233 | 0.2253 | 0.0000 | 66.9014 | 66.9014 | 0.0216 | 0.0000 | 67.4423 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1592 | 0.0000 | 0.1592 | 0.0818 | 0.0000 | 0.0818 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | | 0.0253 | 0.0253 | | 0.0233 | 0.0233 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |
| Total | 0.0532 | 0.5505 | 0.3649 | 7.6000e-004 | 0.1592 | 0.0253 | 0.1845 | 0.0818 | 0.0233 | 0.1051 | 0.0000 | 66.9013 | 66.9013 | 0.0216 | 0.0000 | 67.4422 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |
| Total | 1.4300e-003 | 1.0900e-003 | 0.0125 | 4.0000e-005 | 4.5200e-003 | 2.0000e-005 | 4.5400e-003 | 1.2000e-003 | 2.0000e-005 | 1.2200e-003 | 0.0000 | 3.4396 | 3.4396 | 9.0000e-005 | 9.0000e-005 | 3.4698 |

3.3 Grading - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.3681 | 0.0000 | 0.3681 | 0.1462 | 0.0000 | 0.1462 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.3681 | 0.0570 | 0.4251 | 0.1462 | 0.0524 | 0.1986 | 0.0000 | 218.1408 | 218.1408 | 0.0706 | 0.0000 | 219.9046 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1491 | 0.0000 | 0.1491 | 0.0592 | 0.0000 | 0.0592 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | | 0.0570 | 0.0570 | | 0.0524 | 0.0524 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |
| Total | 0.1329 | 1.3806 | 1.1221 | 2.4800e-003 | 0.1491 | 0.0570 | 0.2061 | 0.0592 | 0.0524 | 0.1116 | 0.0000 | 218.1406 | 218.1406 | 0.0706 | 0.0000 | 219.9044 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |
| Total | 3.1800e-003 | 2.4200e-003 | 0.0278 | 8.0000e-005 | 0.0100 | 5.0000e-005 | 0.0101 | 2.6700e-003 | 4.0000e-005 | 2.7100e-003 | 0.0000 | 7.6435 | 7.6435 | 1.9000e-004 | 2.1000e-004 | 7.7107 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2633 | 162.2633 | 0.0386 | 0.0000 | 163.2283 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0223 | 0.5284 | 0.2713 | 2.8200e-003 | 0.0944 | 4.9000e-003 | 0.0993 | 0.0272 | 4.6900e-003 | 0.0319 | 0.0000 | 269.1193 | 269.1193 | 1.2400e-003 | 0.0368 | 280.1038 |
| Worker | 0.1591 | 0.1209 | 1.3869 | 4.1600e-003 | 0.5014 | 2.3000e-003 | 0.5037 | 0.1332 | 2.1200e-003 | 0.1353 | 0.0000 | 381.8863 | 381.8863 | 9.4600e-003 | 0.0105 | 385.2476 |
| Total | 0.1814 | 0.6492 | 1.6581 | 6.9800e-003 | 0.5958 | 7.2000e-003 | 0.6030 | 0.1604 | 6.8100e-003 | 0.1672 | 0.0000 | 651.0056 | 651.0056 | 0.0107 | 0.0473 | 665.3513 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |
| Total | 0.1101 | 1.0069 | 1.1371 | 1.8900e-003 | | 0.0490 | 0.0490 | | 0.0461 | 0.0461 | 0.0000 | 162.2631 | 162.2631 | 0.0386 | 0.0000 | 163.2281 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0223 | 0.5284 | 0.2713 | 2.8200e-003 | 0.0944 | 4.9000e-003 | 0.0993 | 0.0272 | 4.6900e-003 | 0.0319 | 0.0000 | 269.1193 | 269.1193 | 1.2400e-003 | 0.0368 | 280.1038 |
| Worker | 0.1591 | 0.1209 | 1.3869 | 4.1600e-003 | 0.5014 | 2.3000e-003 | 0.5037 | 0.1332 | 2.1200e-003 | 0.1353 | 0.0000 | 381.8863 | 381.8863 | 9.4600e-003 | 0.0105 | 385.2476 |
| Total | 0.1814 | 0.6492 | 1.6581 | 6.9800e-003 | 0.5958 | 7.2000e-003 | 0.6030 | 0.1604 | 6.8100e-003 | 0.1672 | 0.0000 | 651.0056 | 651.0056 | 0.0107 | 0.0473 | 665.3513 |

3.4 Building Construction - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2189 | 278.2189 | 0.0658 | 0.0000 | 279.8637 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0370 | 0.8953 | 0.4497 | 4.7300e-003 | 0.1618 | 8.3600e-003 | 0.1701 | 0.0467 | 7.9900e-003 | 0.0547 | 0.0000 | 451.3285 | 451.3285 | 2.0300e-003 | 0.0616 | 469.7239 |
| Worker | 0.2529 | 0.1827 | 2.1984 | 6.9000e-003 | 0.8596 | 3.7200e-003 | 0.8633 | 0.2283 | 3.4300e-003 | 0.2317 | 0.0000 | 632.8760 | 632.8760 | 0.0146 | 0.0166 | 638.1821 |
| Total | 0.2899 | 1.0780 | 2.6481 | 0.0116 | 1.0213 | 0.0121 | 1.0334 | 0.2750 | 0.0114 | 0.2864 | 0.0000 | 1,084.2045 | 1,084.2045 | 0.0166 | 0.0781 | 1,107.9060 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |
| Total | 0.1766 | 1.6133 | 1.9400 | 3.2300e-003 | | 0.0736 | 0.0736 | | 0.0692 | 0.0692 | 0.0000 | 278.2186 | 278.2186 | 0.0658 | 0.0000 | 279.8634 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0370 | 0.8953 | 0.4497 | 4.7300e-003 | 0.1618 | 8.3600e-003 | 0.1701 | 0.0467 | 7.9900e-003 | 0.0547 | 0.0000 | 451.3285 | 451.3285 | 2.0300e-003 | 0.0616 | 469.7239 |
| Worker | 0.2529 | 0.1827 | 2.1984 | 6.9000e-003 | 0.8596 | 3.7200e-003 | 0.8633 | 0.2283 | 3.4300e-003 | 0.2317 | 0.0000 | 632.8760 | 632.8760 | 0.0146 | 0.0166 | 638.1821 |
| Total | 0.2899 | 1.0780 | 2.6481 | 0.0116 | 1.0213 | 0.0121 | 1.0334 | 0.2750 | 0.0114 | 0.2864 | 0.0000 | 1,084.2045 | 1,084.2045 | 0.0166 | 0.0781 | 1,107.9060 |

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 6.3533 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |
| Total | 6.3668 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1764 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0316 | 0.0228 | 0.2743 | 8.6000e-004 | 0.1073 | 4.6000e-004 | 0.1077 | 0.0285 | 4.3000e-004 | 0.0289 | 0.0000 | 78.9710 | 78.9710 | 1.8200e-003 | 2.0700e-003 | 79.6331 |
| Total | 0.0316 | 0.0228 | 0.2743 | 8.6000e-004 | 0.1073 | 4.6000e-004 | 0.1077 | 0.0285 | 4.3000e-004 | 0.0289 | 0.0000 | 78.9710 | 78.9710 | 1.8200e-003 | 2.0700e-003 | 79.6331 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 6.3533 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0136 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |
| Total | 6.3668 | 0.0914 | 0.1358 | 2.2000e-004 | | 4.5700e-003 | 4.5700e-003 | | 4.5700e-003 | 4.5700e-003 | 0.0000 | 19.1494 | 19.1494 | 1.0800e-003 | 0.0000 | 19.1763 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0316 | 0.0228 | 0.2743 | 8.6000e-004 | 0.1073 | 4.6000e-004 | 0.1077 | 0.0285 | 4.3000e-004 | 0.0289 | 0.0000 | 78.9710 | 78.9710 | 1.8200e-003 | 2.0700e-003 | 79.6331 |
| Total | 0.0316 | 0.0228 | 0.2743 | 8.6000e-004 | 0.1073 | 4.6000e-004 | 0.1077 | 0.0285 | 4.3000e-004 | 0.0289 | 0.0000 | 78.9710 | 78.9710 | 1.8200e-003 | 2.0700e-003 | 79.6331 |

3.6 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0136 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0333 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0531 | 40.0531 | 0.0130 | 0.0000 | 40.3769 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0198 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |
| Paving | 0.0136 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0333 | 0.1905 | 0.2925 | 4.6000e-004 | | 9.3700e-003 | 9.3700e-003 | | 8.6200e-003 | 8.6200e-003 | 0.0000 | 40.0530 | 40.0530 | 0.0130 | 0.0000 | 40.3769 |

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3.6 Paving - 2024

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |
| Total | 1.1100e-003 | 8.0000e-004 | 9.6300e-003 | 3.0000e-005 | 3.7600e-003 | 2.0000e-005 | 3.7800e-003 | 1.0000e-003 | 2.0000e-005 | 1.0100e-003 | 0.0000 | 2.7709 | 2.7709 | 6.0000e-005 | 7.0000e-005 | 2.7941 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 398.8750 | 398.8750 | 0.0337 | 4.0800e-003 | 400.9327 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 398.8750 | 398.8750 | 0.0337 | 4.0800e-003 | 400.9327 |
| NaturalGas Mitigated | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |
| NaturalGas Unmitigated | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 1.809e+006 | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |
| Total | | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 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 |
| Unrefrigerated Warehouse-No Rail | 1.809e+006 | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |
| Total | | 9.7500e-003 | 0.0887 | 0.0745 | 5.3000e-004 | | 6.7400e-003 | 6.7400e-003 | | 6.7400e-003 | 6.7400e-003 | 0.0000 | 96.5351 | 96.5351 | 1.8500e-003 | 1.7700e-003 | 97.1088 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 161140 | 28.5775 | 2.4100e-003 | 2.9000e-004 | 28.7249 |
| Unrefrigerated Warehouse-No Rail | 2.088e+006 | 370.2975 | 0.0313 | 3.7900e-003 | 372.2078 |
| Total | | 398.8750 | 0.0337 | 4.0800e-003 | 400.9327 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Parking Lot | 161140 | 28.5775 | 2.4100e-003 | 2.9000e-004 | 28.7249 |
| Unrefrigerated Warehouse-No Rail | 2.088e+006 | 370.2975 | 0.0313 | 3.7900e-003 | 372.2078 |
| Total | | 398.8750 | 0.0337 | 4.0800e-003 | 400.9327 |

6.0 Area Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Unmitigated | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 3.5447 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.7400e-003 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Total | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |

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6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.0589 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 3.5447 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.7400e-003 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |
| Total | 4.6053 | 1.7000e-004 | 0.0188 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.0367 | 0.0367 | 1.0000e-004 | 0.0000 | 0.0390 |

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Unmitigated | 546.6341 | 6.8223 | 0.1651 | 766.3767 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 208.125 / 0 | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Total | | 546.6341 | 6.8223 | 0.1651 | 766.3767 |

Alt C - Development at Dale Evans and Lafayette - Passenger Vehicles Only Run - Mojave Desert AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 208.125 / 0 | 546.6341 | 6.8223 | 0.1651 | 766.3767 |
| Total | | 546.6341 | 6.8223 | 0.1651 | 766.3767 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|---------|--------|----------|
| | MT/yr | | | |
| Mitigated | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Unmitigated | 171.7304 | 10.1490 | 0.0000 | 425.4547 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 846 | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Total | | 171.7304 | 10.1490 | 0.0000 | 425.4547 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|----------------------------------|----------------|-----------------|----------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 846 | 171.7304 | 10.1490 | 0.0000 | 425.4547 |
| Total | | 171.7304 | 10.1490 | 0.0000 | 425.4547 |

9.0 Operational Offroad

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

11.0 Vegetation
